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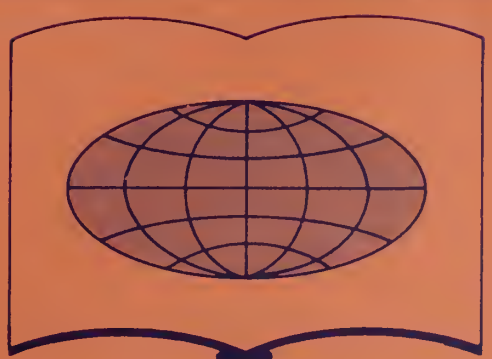

Volume 5 Number 5
February 28, 1969

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PESTICIDES DOCUMENTATION BULLETIN

Volume 5
February 28, 1969
Number 5

A Bi-Weekly Publication of U.S. Department of Agriculture

OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

10 Entomology
20 Crop Protection
30 Livestock Protection
40 Commodity Protection
50 Environmental Contamination
55 Residues
60 Toxicology
65 Plant Physiology & Biochemistry
70 Chemistry
80 Engineering
90 Industry

Citations: Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

Subject Index: Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

Biographical Index: Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

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Organizational Index: Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

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In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

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The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

Compound Tested
Company furnishing the compound
Author or Investigator
Test Sponsor
Date
Location
Mode of Application
Rates of Application
Soil Types
Carriers
Crops or Weeds tested with phytotoxicity ratings
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ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

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This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

CAUTION: Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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2471-69
COMPARATIVE STUDIES OF THE MOLLUSCICIDAL EFFECT OF CUPROUS CHLORIDE AND COPPER SULFATE IN IRAN.
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H Roberts
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Colydiidae, Host relationships, Insect taxonomy, Platypodidae.

Records of ten species of Sosylus collected in Nigeria are given, with details of its distribution and a listing of the host trees of its platypodid associates.

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J G Rozen
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Entomol Rev 47(1 JAN-MAR):133-135
Mar 1968 421 R322AE
Insect geography, Insect taxonomy, Syrphidae.

2528-69
NOTES ON ALASKAN MOSQUITO RECORDS.
K M Sommerman
Mosquito News 28(2):233-234
Jun 1968 421 M85
Aedes canadensis, Aedes cinereus, Aedes vexans, Insect geography, Insect identification.

2529-69
A NEW GENUS AND TWO NEW SPECIES OF ARBOREAL OPPIIDAE (ACARI: CRYPTOSTIGMATA) FROM NEW ZEALAND.
A V Spain
Pacific Insects 11(1):155-163
1969 421 P11
Insect ecology, Insect geography, Insect taxonomy, Oppiidae.

2530-69
NUMERICAL CLASSIFICATION OF THE CANADIAN SPECIES OF THE GENUS AEDES (DIPTERA: CULICIDAE).
C C Steward
Syst Zool 17(4):426-437 REF
Dec 1968 410 SY8
Adults, Aedes, Insect taxonomy, Larvae, Methodology.

2531-69
NEW ORTHOPTERA FROM AFGHANISTAN. (RUS)
M V Stolyarov
Zool Zhur 47(12):1794-1799
Dec 1968 410 R92
Insect taxonomy, Orthoptera. English abstract

2532-69
ACLERDAEPHAGUS PLANUS SUGONJAEV GEN. ET SP. N. (HYMENOPTERA, APHELINIDAE)--PARASITE OF NIPPONACLERDA TURANICA ARCH. IN SOUTH TAJIKISTAN. (RUS)
E S Sugonjaev
Zool Zhur 48(2):290-292
Feb 1969 410 R92
Aphelinidae, Coccidae, Host relationships, Insect taxonomy, Parasitic insects. English abstract

2533-69
A NEW SPECIES OF THE GENUS BRUCHUS L. (COLEOPTERA, BRUCHIDAE) FROM THE USSR.
M Ye Ter-Minasyan
Entomol Rev 47(1 JAN-MAR):105-106
Mar 1968 421 R322AE
Bruchidae, Catalogs, Insect taxonomy.

2534-69
THE GENUS COCCIDOXENUS CRAWFORD, 1913--A SYNONYM OF TRICHOMASTHUS THOMSON, 1875 (HYMENOPTERA, ENCYRTIDAE).
V A Tryapitsyn
Entomol Rev 47(1 JAN-MAR):125
Mar 1968 421 R322AE
Encyrtidae, Insect names, Insect taxonomy.

2535-69
SOME NEW HELICONIUS PUPAE: THEIR TAXONOMIC AND EVOLUTIONARY SIGNIFICANCE IN RELATION TO MIMICRY (LEPIDOPTERA, NYMPHALIDAE).
J R G Turner
J Zool 155(3):311-325 REF
Jul 1968 410.9 L84P
Insect evolution, Insect taxonomy, Mimicry, Nymphalidae, Pupae.

2536-69
SPECIES OF THE GENUS PHYSCUS HOW. (HYMENOPTERA, CHALCIDOIDEA), PARASITES OF SCALE INSECTS IN THE USSR.
V A Vasnosh
Entomol Rev 47(1 JAN-MAR):117-124 REF
Mar 1968 421 R322AE
Catalogs, Chalcidoidea, Insect geography, Insect taxonomy, Parasitic insects.

2537-69
PRELIMINARY REPORTS ON THE LEPIDOPTERA OF MOUNT TERMINILLO.
S Zangheri
Accad Naz Itol Entomol Atti 8:191-217 MAP REF
1960 420 AC2
Insect identification, Lepidoptera, Tables (data), Zoogeography. German summary. listing of many species.

PHYSIOLOGY AND BIOCHEMISTRY

2538-69
COMPERIELLA BIFASCIATA HOW. (HYMENOPTERA, ENCYRTIDAE), A PARASITE OF THE SPRUCE SCALE IN ADZHARIA.
N G Agekyan
Entomol Rev 47(1 JAN-MAR):24-25
Mar 1968 421 R322AE
Coccoidea, Encyrtidae, Host range, Insect ecology, Life cycle, Parasitic insects.

2539-69
ON FOOD FORMS OF THE FLAT-HEADED PEAR-BORER AGRILUS VIRIDIS (COLEOPTERA, BUPRESTIDAE). (RUS)
A V Alexeev
Zool Zhur 48(1):85-92
Jan 1969 410 R92
Agrilus, Food habits, Host relationships, Insect ecology, Insect morphology, Polymorphism. English abstract

2540-69
OVERWINTERING HABITS OF ORTHOPODOMYIA CALIFORNICA BOHART (DIPTERA: CULICIDAE).
D C Baerg
Mosquito News 28(2):234-235
Jun 1968 421 M85
Hatching, Hibernation, Life cycle, Orthopodomyia, Temperature.

2541-69
BIOCHEMISTRY OF THE DEVELOPMENT OF THE INSECTS DACUS OLEAE AND CERATITIS CAPITATA--EVOLUTION OF TOTAL FATTY ACIDS.
C Barroso A M Municio A Ribera
Compar Biochem Physiol 28(1):239-244 REF
Jan 1969 444.8 C73
Ceratitis capitata, Dacus oleae, Development, Fatty acids, Insect biochemistry, Insect physiology.

2542-69
FIRST APPLICATIONS OF BIOLOGICAL CONTROL OF AONIDIELLA AURANTII IN MOROCCO. (FR)
C Benassy G Euverte
Awamio (21):19-25
Oct 1968 24 AW1
Aonidiella aurantii, Aphytis lingnanensis, Aspidiotus hederae, Biological control (insects), Citrus, Insect rearing, Orchards, Parasitism. English, Spanish and Arabic summaries.

2543-69
NOSEMA DISEASE OF HONEY BEES.
F S Benecke
Agr Gaz New S Wales 79(5):274-279
May 1968 23 N472
Acetic acid, Apiculture, Fumagillin, Host relationships, Insect mortality, Life cycle, Nosema apis, Palynology, Weather.

The environmental conditions which influence the development of nosema disease in honey bees and the effect that the disease has on workers, queens and the entire colony are discussed. Fumagillin and glacial acetic acid fumigation are the recommended control measures.

2544-69
MEIGENIA MUTABILIS FALL. (DIPT. TACHINIDAE) AS A PARASITE OF OULEMA MELANOPA L. AND ITS RELATION TO LEPTINOTARSA DECEMLINEATA SAY. (SE)
P Bjegovic
Zastita Biljo 18(93/95):93-100
1967 464.8 Z1
Chrysomelidae, Insect biology, Insect pests, Leptinotarsa decemlineata, Oulema melanopa, Parasitic insects, Tachinidae. English summary.

2545-69
A TACHINID PARASITE OF AUSTRALIAN GRASSHOPPERS.
R E Blackith
Australian J Zool 15(4):745-758 MAP REF
Aug 1967 410 AU73
Acrididae, Host range, Insect geography, Insect morphology, Parasitic insects, Tachinidae.

A Tachnid parasite of Morabinae grasshoppers is described along with its distribution and host range in Australia.

2546-69
FLIGHT MUSCLE VOLUME CHANGE IN IPS CONFUSUS (COLEOPTERA: SCOLYTIDAE).
J H Borden C E Slater
Can J Zool 47(1):29-32 REF

Jan 1969 470 C16D
Insect anatomy, Insect flight, Insect physiology, Ips confusus, Measurement, Muscles, Scolytidae, Volumetric analysis.

2547-69
THE USE OF DROSOPHILA MELANOGASTER MEIG., CALANDRA ORYZAE L. AND TRIBOLIUM CONFUSUM DUV. FOR THE DETECTION OF PESTICIDES AND FOR THE EVALUATION OF SOME EXTRACTIVE TECHNIQUES. (IT)
A R Borgatti A Cesari R Stanzani
Giornate Fitopatol 105-113 REF
26 Mar 1967 SB599.G5
Calandra oryzae, Chlorinated hydrocarbons, Drosophila melanogaster, Endrin, Insect physiology, Malathion, Organophosphorus compounds, Parathion, Pesticide residues, Tribolium confusum. Several other pesticides were tested.

2548-69
REARING THREE SPECIES OF FRUIT-SUCKING MOTHS ON ARTIFICIAL DIETS.
J Bot
S Afr J Agr Sci 10(4):1009-1014
Dec 1967 24 SU3
Culture media, Insect rearing, Lepidoptera, Synthetic diets.

2549-69
STEROLS OF THE COMMON HOUSE CRICKET, ACHETA DOMESTICUS L.
G A Carls
Diss Abstr Sect B 29(3):931B-932B
Sep 1968 Z5055.U49D53
Acheta domesticus, Biochemistry, Chemurgy, Chromatography, Insect metabolism, Sterols.

2550-69
ULTRASTRUCTURE OF PHOTORECEPTOR CELLS IN A VITAMIN ADEFICIENT MOTH (MANDUCA SEXTA).
S D Carlson G Gemne W E Robbins
Experientia 25(2):175-177 REF
15 Feb 1969 475 EX7
Electron microscopy, Insect cytology, Insect morphology, Manduca sexta, Retina, Vitamin a.

2551-69
NEW OBSERVATION ON THE ORIGIN AND LOCALITY OF THE MICROTUBULES IN THE ERGASTOPLASM IN THE MIGRATOR LOCUST. LOCUSTA MIGRATORIA MIGRATORIA (R. AND F.). (FR)
P Cassier M-a Fain-Maurel
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):537-539 REF
20 Jan 1969 505 P21
Electron microscopy, Insect cytology, Insect morphology, Locusta migratoria, Metamorphosis.

2552-69
MASS ISOLATION OF MALARIA SPOROZOITES FROM MOSQUITOES BY DENSITY GRADIENT CENTRIFUGATION.
D H Chen I Schneider
Soc Exp Biol Med Proc 130(4):1318-1321
Apr 1969 442.9 SO1
Aedes aegypti, Centrifugation, Methodology, Plasmodium gallinaceum.

2553-69
A POPULATION STUDY OF PHAULACRIDIUM VITTATUM SJOST. (ACRIDIDAE).
D P Clark
Australian J Zool 15(4):799-872 MAP REF
Aug 1967 410 AU73
Acrididae, Demography, Diapause, Food habits, Life cycle, Weather.
The life cycle of Phaulacridium vittatum and environmental conditions affecting the survival of each stage in its development are discussed.

2554-69
GENOTYPES AND ENVIRONMENT IN THE DETERMINATION OF THE GROUND- AND WINGED FORMS OF APHIDS. (IT)
G Cognetti
Accad Naz Ital Entomol Atti 8:99-101
1960 420 AC2
Aphididae, Environment, Genotypes, Insect genetics, Insect rearing, Parthenogenesis, Wings (insects).

2555-69
THE IMPORTANCE OF BUCCO-PHARYNGEAL ARMATURE IN ANOPHELES AND CULEX IN RELATION TO DIROFILARIA INFECTION. (IT)
M Coluzzi R Trabucchi
Parassitologia 10(1):47-60 REF
Jul 1968 436.8 P212
Anopheles, Biological control, Culex, Dirofilaria, Insect morphology, Insect vectors. English summary.

2556-69
NOTES ON THE SPOROGONIC STAGES OF PLASMODIUM (GIOVANNOLAIA) POLARE IN CULISETA LONGIAREOLATA. (IT)
A Corradetti M Scanga
Parassitologia 10(1):1-10
Jul 1968 436.8 P212
Culiseta, Disease transmission, Histology, Insect vectors, Plasmodium. English summary.

2557-69
THE FOOD AND FEEDING RELATIONSHIPS OF THE COMMON MESO AND MACROFAUNA IN THE MAHA OYA, A SMALL MOUNTAINOUS STREAM AT PERADENIYA, CEYLON.
H H Costa E C M Fernando
Ceylon J Sci Biol Sci 7(1-2):74-90 MAP REF
Oct 1967 475 C33
Aquatic animals, Aquatic insects, Aquatic plants, Feeding, Fish, Food, Invertebrates, Streams.

2558-69
THE SENSORY PHYSIOLOGY OF THE LARVA OF THE RHINOCEROS BEETLE ORYCTES RHINOCEROS L.
H H Costa V K Ganesalingam
Ceylon J Sci Biol Sci 7(1/2):52-73 REF
Oct 1967 475 C33
Coconuts, Humidity, Insect behavior, Insect pests, Larvae, Oryctes rhinoceros, Smell, Temperature.

2559-69
STUDY OF SOME INJURIES INDUCED BY X-RAYS IN THE FIRST STAGE LARVAE OF BOMBYX MORI. (FR)
M Coulon
Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):959-962
10 Feb 1969 505 P21
Bombyx mori, Insect mortality, Insect mutation, Irradiation, Larvae.

2560-69
MITOTIC ACTIVITY IN IN VITRO CULTURE, IN THE OCCULOANTENNAL DISCS OF CALLIPHORA ERYTHROCEPHALIA MEIG. LARVAE (INSECTA, DIPTERA). (FR)
A M Courgeon
Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):950-952
10 Feb 1969 505 P21
Antennae, Calliphoridae, Insect cytology, Larvae, Mitosis.

2561-69
ON THE DETERMINATION OF AGE STRUCTURE OF THE LARVAE OF TENDIPEDIDAE (DIPTERA).
B Czeczuga E Bobiatynska-Ksok E Niedzwiecki
Zool Pol 18(3):317-328 REF
1968 410 Z712
Aging, Head capsule, Insect morphology, Larvae, Tendipedidae.

2562-69
THE EFFECT OF PESTICIDE APPLICATION AT THE END OF WINTER, ON THE WINTER EGGS OF PANONYCHUS ULMI KOCH. (IT)
I Da Tripoli A Gelosi A Ugolini
Giornate Fitopatol 389-391
26 Mar 1967 SB599.G5
Apples, Chemical control (insects), Insect eggs, Insecticide application, Organophosphorus compounds, Panonychus ulmi, Parathion, Peaches, Petroleum.

2563-69
A METHOD FOR COMPARING FEEDING RATES IN MOSQUITO LARVAE.
R H Dadd
Mosquito News 28(2):226-230
Jun 1968 421 M85
Carbon, Culicidae, Food habits, Insect feeding, Larvae, Methodology.

2564-69
A COMPARATIVE STUDY OF EMBRYOGENESIS IN THE MOSQUITO CULEX FATIGANS WIEDEMANN (DIPTERA: CULICIDAE) AND THE SHEEP-FLY LUCILIA SERICATA MEIGEN (DIPTERA: CALLIPHORIDAE). I. DESCRIPTION OF EMBRYONIC DEVELOPMENT.
C W C Davis
Australian J Zool 15(3):547-579 REF
May 1967 410 AU73
Culex quinquefasciatus, Embryogenesis, Larvae, Phaenicia sericata.

2565-69
EFFECT OF DIETARY SERINE ON SURVIVAL AND RATE OF DEVELOPMENT OF ORYZAEPHILUS SURINAMENSIS (COLEOPTERA: SILVANIDAE).
G R F Davis
Can Entomol 101(1):27-31 REF
Jan 1969 421 C16
Biosynthesis, Diet, Glycine, Humidity, Insect nutrition, Oryzaephilus surinamensis, Serine, Silvanidae.

2566-69
A COMPARISON TRIAL OF PACKAGE BEES OBTAINED FROM DIFFERENT TRADE SOURCES.
A S C Deans
Scot Agr 47(3,SUMMER):153-156
1968 10 SCO82SO
Apiculture, Bees, Crop yields, Honey.

2567-69
PSEUDO-ALLOSTERIC BEHAVIOR OF FIREFLY LUCIFERASE.
J Denburg M DeLuca
Biochem Biophys Res Commun 31(3):453-460
10 May 1968 442.8 B5236
Assay, Biochemistry, Enzymes, Fluorescence, Hydrolysis, Insect physiology, Kinetics, Lampyridae, Luciferase, Pyrophosphatases.

2568-69
DISTRIBUTION OF THE FACE FLY, MUSCA AUTUMNALIS (DIPTERA: MUSCIDAE), IN WESTERN CANADA AND THE RELATION BETWEEN ITS ENVIRONMENT AND POPULATION DENSITY.
K R Depner
Can Entomol 101(1):97-100 MAP REF
Jan 1969 421 C16
Climate, Insect migration, Musca autumnalis, Muscidae, Zoogeography.

2569-69
THE STRUCTURE OF THE HINDGUT AND ASSOCIATED STRUCTURES OF THE LARVA OF SESAMIA CALAMISTIS HAMPSON (LEPIDOPTERA: NOCTUIDAE).
H J R Durr
S Afr J Agr Sci 10(3):723-734 REF
Sep 1967 24 SU3
Gastrointestinal system, Insect histology, Insect morphology, Sesamia calamistis.

2570-69
THE ISOLATION AND BIOPHYSICAL CHARACTERIZATION OF AN INSECT VIRUS FROM PACHYPASA CAPENSIS (LEPIDOPTERA: LASIOCAMPIDAE).
L P van Dyk V de Villiers

S Afr J Agr Sci 10(4):969-979 REF
Dec 1967 24 SU3
Biological control, Biophysics, Insect diseases, Lasiocampidae, Polyhedroses, Virus diseases (insects).

2571-69
STRUCTURE, FUNCTION AND DEVELOPMENT OF THE RECTAL APPARATUS FOR FORMING EXCREMENTS (KOTPRESSE) OF CENTRAL EUROPEAN CLYTRINAE AND CRYPTOCEPHALINAE (COLEOPTERA, CHRYSOMELIDAE).
D Erber
Z Morphol Okolog Tiere 62(3):245-306 REF
1968 442.8 Z33
Chrysomelidae, Excreta, Insect anatomy, Insect eggs, Insect histology, Insect morphology, Larvae, Rectum. English summary.

2572-69
WHOLE-BODY TURNOVER OF SODIUM IN ADULT DROSOPHILA (DROSOPHILADAE) AND MEGASELIA (PHORIDAE).
L D Fairbanks G E Burch
Physiol Zool 41(4):401-411
Oct 1968 410 P56
Drosophila melanogaster, Drosophila repleta, Insect metabolism, Megaselia scalaris, Radioactive isotopes, Sodium.

2573-69
LABORATORY REARING OF THE PEPPER MAGGOT, ZONOSEMATA ELECTA (SAY) (DIPTERA: TEPHRITIDAE).
W H Foott
Entomol Soc Ontario Proc 98:18-21
1967 420 ON8
Insect eggs, Insect morphology, Insect rearing, Laboratories, Larvae, Ovipositors, Tephritidae, Zonosemata electa.

2574-69
THE IMPORTANCE OF SOLANUM CAROLINENSE L. AS A HOST OF THE PEPPER MAGGOT, ZONOSEMATA ELECTA (SAY) (DIPTERA: TEPHRITIDAE) IN SOUTHWESTERN ONTARIO.
W H Foott
Entomol Soc Ontario Proc 98:16-18
1967 420 ON8
Diptera, Insect behavior, Insect rearing, Solanum carolinense, Tephritidae, Zonosemata electa.

2575-69
THE STYLETS OF THE GREEN PEACH APHID, MYZUS PERSICAE (HOMOPTERA: APHIDIDAE).
A R Forbes
Can Entomol 101(1):31-41 REF
Jan 1969 421 C16
Aphididae, Electron microscopy, Insect anatomy, Insect morphology, Myzus persicae, Stylets.

2576-69
ON THE GENERIC POSITION OF PLESIOCERA FLAVIFRONS BECKER AND OF A FEW RELATED SPECIES (DIPTERA, BOMBYLIIDAE).
F J J Francois
Inst Roy Sci Natur Belg Bull 43(39):8P REF
31 Dec 1967 504 B835B
Bombyliidae, Insect anatomy, Insect identification, Insect morphology, Insect names, Insect physiology. French summary.

2577-69
QUANTITATIVE SAMPLING OF THE PSEUDOSCORPION CHTHONIUS ISCHNOCHELES FROM BEECH LITTER.
P D Gabbutt
J Zool 151(4):469-478
Apr 1967 410.9 L84P
Chelonethida, Demography, Insect population statistics, Soil microorganisms, Surveys.

2578-69
THE EXTERNAL MORPHOLOGY AND LIFE HISTORY OF THE PSEUDOSCORPION MICROCREAGRIS CAMBRIDGEI.
P D Gabbutt M Vachon
J Zool 154(4):421-441
Apr 1968 410.9 L84P
Chelonethida, Insect biology, Insect morphology, Insect taxonomy.

2579-69
SOME OBSERVATIONS ON THE EMBRYONIC DEVELOPMENT OF THE EXTERNAL GENETALIA IN THE COLLEMBOLAN ANURIDA MARITIMA GUERIN. (FR)
M Garaudy-Tamarelle
Acad Sci Compt Rend Ser D Sci Not 268(6, 1ST SEMESTER):945-947
10 Feb 1969 505 P21
Collembola, Development, Embryology, Insect morphology, Reproductive organs.

2580-69
A HISTOLOGICAL STUDY OF NEUROSECRETION IN ANTS (FORMICOIDEA).
R B Gawande
Acta Ent Bohemoslov 65(5):349-363 REF
20 Sep 1968 420 C33
Formicidae, Insect histology, Neurosecretion. Czech summary.

2581-69
THE POSSIBILITIES OF THE APPLICATION OF PATHOGENIC BACTERIA FOR THE CONTROL OF DEFOLIATING CATERPILLARS (ABSTRACT). (FR
P Grison
Entomophaga 7(3):269-270
1962 421 EN835
Bacillus thuringiensis, Biological control (insects), Caterpillars, Defoliation, Forests, Fruit culture, Integrated control (pests), Orchards, Pathogenic bacteria. Influence on many insect species is discussed. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2582-69
STUDIES ON THE CONTROL OF MOSQUITOES IN EGYPT BY MEANS OF CHEMOSTERILANTS. I. CHEMOSTERILIZATION OF ANOPHELES PHAROENSIS.
M Hafez A E Aboul-Nasr H S Salama
J Econ Entomol 62(1):233-234
17 Feb 1969 421 J822
Anophcles pharoensis, Biological control (insects), Breeding, Chemical control (insects), Chemosterilants, Diet, Hempa, Tepa.

2583-69
NEW TRAPPING AND RECORDING METHODS FOR INVESTIGATIONS INTO THE MIGRATION PHENOMENON OF VIRUS-TRANSMITTING INSECTS. (GE
E Haine
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):113-117 REF
Feb 1967 410.9 G31M
Aphididae, Atmosphere. Insect collection, Insect flight, Insect vectors, Suction traps, Virus diseases plants. English abstract

2584-69
STUDY OF SEVERAL PHYSIOLOGICAL AND BIOLOGICAL CHARACTERISTICS IN THE THIRD INSTAR OF MELOLONTHA MELOLONTHA L. LARVAE WHICH HAVE BEEN CONTAMINATED BY TWO PATHOLOGIC AGENTS. (FR)
N Hawlitzky
Acad Sci Compt Rend Ser D Sci Not 268(6, 1ST SEMESTER):941-944
10 Feb 1969 505 P21
Bacillus popilliae, Insect diseases, Insect physiology, Insect respiration, Larvae, Melolontha melolontha, Metamorphosis, Rickettsia.

2585-69
INTRACELLULAR DISTRIBUTION OF BETA-GLUCURONIDASE ACTIVITY DURING METAMORPHOSIS OF THE HOUSEFLY, MUSCA DOMESTICA L.
B M Hegdekar B N Smallman
Can J Zool 47(1):45-49 REF
Jan 1969 470 C16D
Cells, Enzymes, Insect biochemistry, Lysosomes, Metamorphosis, Microsomes, Musca domestica.

2586-69
GALL MIDGES (DIPTERA-CECIDOMYIIDAE) AND THEIR PARASITES (HYMENOPTERA) LIVING IN FEMALE BIRCH CATKINS.
S Hodges
Soc Brit Entomol Trans 18(9):195-225 REF
Mar 1969 420 SO15
Betula, Cecidomyiidae, Gall-making insects, Hymenoptera, Insect biology, Insect ecology, Insect morphology, Parasitic insects, Population.

2587-69
INTER-RACIAL MATING OF A NON-DIAPAUSING AND A DIAPAUSING RACE OF TELEOGRYLLUS COMMODUS (WALK.) (ORTHOPTERA: GRYLLIDAE).
T W Hogan
Australian J Zool 15(3):541-545
May 1967 410 AU73
Biological control (insects), Insect diapause, Insect genetics, Insect rearing, Teleogryllus commodus.

2588-69
THE TOXIC EFFECT OF HERBICIDES UPON ANTS AND EARTHWORMS. (RUS
A M Iljin
Zool Zhur 48(1):141-143
Jan 1969 410 R92
Biological assay, Earthworms, Formicidae, Herhicides, Toxicology. English abstact

2589-69
THE USE OF COELOCONIC SENSILLAE ON THE FEMALE ANTENNA IN DIFFERENTIATING THE MEMBERS OF THE ANOPHELES GAMBIAE GILES COMPLEX.
I A H Ismail E I Hammound
World Health Organ Bull 38(5):814-821
1968 449.9 W892B
Anopheles, Anopheles gambiae, Antennae, Insect anatomy, Insect identification, Sense organs.

2590-69
SEX PHEROMONE OF THE PINK BOLLWORM MOTH: BIOLOGICAL MASKING BY ITS GEOMETRICAL ISOMER.
M Jacobson
Science 163(3863):190-191 REF
10 Jan 1969 470 SC12
Biochemistry, Chromatography, Insect physiology, Isomers, Moths, Pectinophora gossypiella, Pheromones.

2591-69
REPRODUCTION IN THE PYRALIDIDAE (LEPIDOPTERA). I. POST-EMBRYONIC DEVELOPMENT AND STRUCTURE OF THE MALE REPRODUCTIVE SYSTEMS OF CADRA CAUTELLA AND PLODIA INTERPUNCTELLA.
P C Joubert
S Afr J Agr Sci 10(3):707-722
Sep 1967 24 SU3
Cadra cautella, Development, Insect morphology, Plodia interpunctella, Reproductive organs.

2592-69
STUDIES ON THE BYRON BOG IN SOUTHWESTERN ONTARIO XXXIII. DISTRIBUTION OF DYTISCIDAE AND HYDROPHILIDAE (COLEOPTERA) IN THE BOG.
W W Judd
Entomol Soc Ontario Proc 98:48-52 MAP
1967 420 ON8
Bogs, Coleoptera, Dytiscidae, Environment, Hydrophilidae, Insect collection, Insect dissemination, Research, Zoogeography.

2593-69
INVESTIGATION OF THE EFFECT OF GOVERNING CHEMICAL COMPOUNDS IN TREES ON BARK BEETLE ORIENTATION. (GE)
E Kangas
Z Angew Entomol 61(4):353-364 REF
May 1968 421 Z36
Attractants, Hibernation, Humidity, Insect behavior, Light, Olfactometers, Phloem, Pinus sylvestris, Temperature, Terpineol, Tomicus piniperda. English summary.

2594-69
ECOLOGY OF LACCIFER LACCA KERR (HOMOPTERA, COCCOIDEA) UNDER THE CONDITIONS OF THE BLACK SEA COAST OF GEORGIA.
Z K Khadzhibeyli
Entomol Rev 47(1,JAN-MAR):5-9
Mar 1968 421 R322AE
Food plants, Insect ecology, Insect rearing, Laccifer lacca, Temperature.

2595-69
CONSUMPTION OF NUTRITIONAL RESERVES BY HUNGRY FEMALES IXODES PERSULCATUS P. SCH. DURING THE LIFE CYCLE. (RUS)
P G Khizhinskii
Med Parazitol Parazitarn Bolezni 37(3,MAY-JUN):291-297 REF
1968 448.8 M469
Forests, Hibernation, Insect adaptation, Insect nutrition, Insect physiology, Ixodes persulcatus, Molting (insects), Temperature. English summary.

2596-69
OOSORPTION IN NASONIA VITRIPENNIS (HYMENOPTERA: PTEROMALIDAE).
P E King J G Richards
J Zool 154(4):495-516 REF
Apr 1968 410.9 L84P
Absorption (biological), Aging, Insect biochemistry, Insect physiology, Insect reproduction, Nasonia vitripennis.

2597-69
DEVELOPMENTAL CHANGES IN THE LATE LARVA OF CALLIPHORA STYGIA. I. HAEMOLYMPH.
J F Kinnear M-d Martin J A Thomson G J Neufeld
Australian J Biol Sci 21(5):1033-1045 REF
Oct 1968 442.8 AU72
Calliphora stygia, Chemical analysis, Development, Electrophoresis, Hemolymph, Larvae.

2598-69
COMPARATIVE MORPHOLOGY OF THE LARVAE OF CERTAIN GENERA OF FLEAS (APHANIPTERA).
A N Kir'yakova
Entomol Rev 47(1,JAN-MAR):41-46 REF
Mar 1968 421 R322AE
Catalogs, Insect morphology, Insect taxonomy, Larvae, Pulex, Siphonaptera, Xenopsylla.

2599-69
LUCIFERIN AND LUCIOPTERIN ISOLATED FROM THE JAPANESE FIREFLY, LUCIOLA CRUCIATA.
Y Kishi S Matsuura S Inoue O Shimomura T Goto
Tetrahedron Lett (24):2847-2850
Apr 1968 385 T29
Chromatography, Fluorescence, Insect biochemistry, Luciferins, Luciola cruciata, Luciopterin. Leuciopteridine identified as 8-methyl-1,2,3,4,7,8-hexahydro-2,4,7-trioxopteridine.

2600-69
GENERAL CONSIDERATIONS ON THE SIGNIFICANCE OF PREDATORS AND PARASITES IN ORCHARDS.
D J Kuenen
Entomophaga 7(3):221-226
1962 421 EN835
Balance of nature, Biocenosis, Fungicides, Insecticides, Orchards, Parasitism, Predaceous insects, Spraying. French summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2601-69
OVIPOSITION CYCLES AND THE STIMULUS FOR OVIPOSITION IN DERMESTES MACULATUS DEGEER (COLEOPTERA: DERMESTIDAE).
A M Ladduwahetty
Ceylon J Sci Biol Sci 7(1/2):128-138 REF
Oct 1967 475 C33
Dermestes maculatus, Insect behavior, Insect eggs, Ovulation.

2602-69
COMPARATIVE MORPHOLOGY OF THE MALE AUSTRALIAN NEPIDAE (HEMIPTERA: AETEROPTERA).
I Lansbury
Australian J Zool 15(3):641-649 REF
May 1967 410 AU73
Insect morphology, Nepidae, Reproductive organs, Venation (insects).

2603-69
SEASONAL FLUCTUATIONS IN THE PROTOZOAN PARASITES OF THE CENTIPEDES LITHOBIUS VARIEGATUS AND LITHOBIUS FORFICATUS IN A YORKSHIRE WOODLAND.
J G E Lewis
J Zool 151(1):163-169
Jan 1967 410.9 L84P
Chilopoda, Parasites, Protozoa, Seasonal variation, Surveys.

2604-69
DETERMINATION OF THE MOLECULAR WEIGHT OF PROTEINS, ESTERASES, AND BASIC PHOSPHO-MONOESTERASES IN THE HEMOLYMPH OF GALLERIA MELLONELLA L. PREPUPA AND PUPA USING A THINLAYER CHROMATOGRAPHY.
M Marek
Experientia 25(2):136-137 REF
15 Feb 1969 475 EX7
Chromatography, Esterases, Galleria mellonella, Hemolymph, Insect biochemistry, Phosphatases, Proteins.

2605-69
A TEST OF THE IMMEDIATE AND RESIDUAL EFFICACY OF SOME PHOSPHOROUS ESTERS AGAINST THE LARVAE OF THE OLIVE FRUIT FLY (DACUS OLEAE GMELIN). (IT)
G M Martelli O Casilli
Giornate Fitopatol 383-386
26 Mar 1967 SB599.G5
Chemical control (insects), Dacus oleae, Dimethoate, Ekatin, Insecticide residues, Larvae, Phosphamidon.

2606-69
THE STRUCTURE, FUNCTION AND IMAGINAL DEVELOPMENT OF THE FEMALE INNER REPRODUCTIVE ORGANS OF ADELPHOCORIS LINEOLATUS (GOEZE), (HETEROPTERA, MIRIDAE).
P Masner
Acta Ent Bohemoslov 63(3):177-199 REF
1966 420 C33
Adelphocoris lineolatus, Insect anatomy, Insect morphology, Insect physiology, Miridae, Reproductive organs. Czech summary.

2607-69
SOME DATA ON THE FAUNA AND ECOLOGY OF THE TABANID FLIES (DIPTERA, TABANIDAE) OF NORTH BELORUSSIA.
A G Mayevskiy
Entomol Rev 47(1,JAN-MAR):50-53
Mar 1968 421 R322AE
Climate, Habitats, Insect ecology, Surveys, Tabanidae.

2608-69
ROLE OF SALTS IN OVIPOSITION SITE SELECTION BY THE BLACK SALT-MARSH MOSQUITO, AEDES TAENIORHYNCHUS (WIEDEMANN).
W H McGaughey
Mosquito News 28(2):207-217 REF
Jun 1968 421 M85
Aedes taeniorhynchus, Insect behavior, Oviposition, Sulfates.

Aedes taeniorhynchus, a salt-marsh mosquito, responded to sulfates in pure solution and in combination with other salts on the oviposition substrate. The response appeared to be due to the chemical and was independent of osmotic pressure except at higher levels where such solutions may be repellent. Normal oviposition occurred on distilled water because of its non-repellent nature.

2609-69
DEFENSIVE MECHANISMS OF ARTHROPODS, XXIII. AN ALLENIC SESQUITERPENOID FROM THE GRASSHOPPER ROMALEA MICROPTERA.
J Meinwald K Erickson M Hartshorn Y C Meinwald T Eisner
Tetrahedron Lett (25):2959-2962
May 1968 385 T29
Arthropoda, Chromatography, Insect protective devices, Insect repellents, Romalea microptera, Secretion, Sesquiterpenoids.

2610-69
ORIENTATION AND PROGRESS IN THE STUDIES ON THE PARASITISM OF ENTOMOPHAGOUS INSECTS. (IT)
E Mellini
Accad Naz Ital Entomol Atti 8:62-85 REF
1960 420 AC2
Entomology, Environment, Insect biology, Insect morphology, Parasitism, Predaceous insects, Research.

2611-69
LARVA, PUPA AND LIFE HISTORY OF THREE SPECIES OF IBIDIONINI (COLEOPTERA, CERAMBYCINAE).
F R Meyer
Sao Paulo Dep Zool Papeis Avulsos 20(14):147-158
11 Jul 1967 410.9 SA63
Cerambycidae, Compsa albopicta, Compsa monrosi, Gnomidolon varians, Ibidionini, Insect biology, Insect pests, Insect taxonomy, Larvae, Ornamental plants, Pupae.

2612-69
IDENTIFICATION OF PTERIDINES IN AEDES AEGYPTI (L.).
D W Micks J Jennings K Barnes
Mosquito News 28(2):191-192
Jun 1968 421 M85
Aedes aegypti, Chromatography, Insect biochemistry, Insect identification, Pteridine.

2613-69
COMMUNITY STUDIES ON HYMENOPTERA FOUND ON BRASSICA NAPUS L. PART VI. CHALCIDOIDEA. (POL)
B Miczulski
Pol Pismo Entomol 38(2):341-385 REF
1968 421 P76
Chalcidoidea, Hymenoptera, Insect adaptation, Insect biology, Insect collecting equipment, Insect identification, Insect pests, Larvae, Nomenclature, Parasites, Rape, Tables (data). English summary.

2614-69
THE PASSIVE DISPERSAL OF VIABLE ALGAE AND PROTOZOA BY AN AQUATIC BEETLE.
L E Milliger H E Schlichting
Amer Microscop Soc Trans 87(4):443-448 REF
Oct 1968 440.9 AM33
Algae, Aquatic insects, Gastrointestinal system, Insect biology, Protozoa.

2615-69
SCHIZECKENOSY: THE SUBSTITUTE FOR DEFECATION IN CHIGGER MITES.
R Mitchell M Nadchatram
Ann Mag Natur Hist 3(1,JAN-MAR):121-124
Mar 1969 410 AN77
Excretion, Feces, Insect morphology, Insect physiology, Mites, Trombiculidae.

A new term schizeckenosy is proposed for a process of defecation in which a mite lacking both an anus and a hind gut extrudes a faeces-filled gut lode through a rupture in a specific region of the body wall.

2616-69
PARASITES OF SPHAEROLECANIUM PRUNASTRI FONSC. (HOMOPTERA, COCCOIDEA). (SE)
N Mitic-Muzina
Zastita Bilja 19(93/95):183-187
1967 464.8 Z1
Chalcidoidea, Coccoidea, Homoptera, Insect identification, Parasitism, Predaceous insects. French summary. 10 species of parasites are identified.

2617-69
THE DISTRIBUTION AND ACTIVITY LEVELS OF CARBOHYDRASES IN THE ALIMENTARY CANAL OF THE COCKROACH, BLABERUS CRANIIFER BURMEISTER.
W W D Modder
Ceylon J Sci Biol Sci 7(1/2):9-23 REF
Oct 1967 475 C33
Blaberus craniifer, Blattidae, Carbohydrases, Digestion, Gastrointestinal system, Salivary glands.

2618-69
THE SPECIFICITIES OF ALIMENTARY CANAL CARBOHYDRASES OF THE COCKROACH, BLABERUS CRANIIFER BURMEISTER.
W W D Modder
Ceylon J Sci Biol Sci 7(1/2):24-31 REF
Oct 1967 475 C33
Blaberus craniifer, Blattidae, Carbohydrases, Enzymes, Gastrointestinal system, Hydrogen-ion concentration, Temperature.

2619-69
THE STRUCTURE OF THE ALIMENTARY CANAL AND SALIVARY GLANDS IN ACROTELSA COLLARIS (THYSANURA: LEPISMATIDAE).
W W D Modder
Ceylon J Sci Biol Sci 7(1/2):139-150
Oct 1967 475 C33
Acrotelsa collaris, Insect anatomy, Insect physiology, Intestines, Lepismatidae, Salivary glands.

2620-69
CALCIUM ALGINATE: A NEW APPROACH IN THE ARTIFICIAL CULTURING OF INSECTS, APPLIED TO SPODOPTERA LITTORALIS (BOISDUVAL).
I Moore A Navon
Experientia 25(2):221-222
15 Feb 1969 475 EX7
Alginic acid, Culture media, Insect rearing, Methodology, Spodoptera, Synthetic diets.

2621-69
INFLUENCE OF SOME ENVIRONMENTAL FACTORS ON THE VIABILITY AND HATCHING OF AEDES AEGYPTI (L.) EGGS.
M S Mulla M F B Chaudhury
Mosquito News 28(2):217-221 REF
Jun 1968 421 M85
Aedes aegypti, Ascorbic acid, Hatching, Humidity, Insect eggs, Mortality, Temperature.

The hatching of eggs of Aedes aegypti was found to have a direct relationship to humidity and an inverse relationship to temperature and to be dependent on a stimulus such as ascorbic acid at 0.1 percent solution.

2622-69
EFFECTS OF SURFACE TENSION ON PUPAE OF CULEX PIPIENS QUINQUEFASCIATUS SAY AND AEDES AEGYPTI (L.).
M S Mulla M F B Chaudhury
Mosquito News 28(2):187-191
Jun 1968 421 M85
Aedes aegypti, Aquatic insects, Culex pipiens quinquefasciatus, Insect morphology, Interfacial tension, Pupae.

The mortality of the tested mosquito pupae increased proportionately as the water surface tension was lowered by polydetergents.

2623-69
ACID PHOSPHATASE ACTIVITY IN THE DIGESTIVE SYSTEM OF THE DESERT LOCUST SCHISTOCERCA GREGARIA (FORSKAL).
S N H Naqvi S H Ashrafi M A H Qadri
Australian J Biol Sci 21(5):1047-1052 REF
Oct 1968 442.8 AU72
Acid phosphatase, Chemical activation, Gastrointestinal system, Insect biochemistry, Schistocerca gregaria.

2624-69
SELECTION OF PHASE TYPES BASED ON HOPPER COLORATION IN LOCUSTANA PARDALINA (WALKER).
M D Nel
S Afr J Agr Sci 10(3):823-829
Sep 1967 24 SU3
Insect breeding, Insect color, Insect migration, Locustana pardalina, Polymorphism.

2625-69
THE BIOLOGY OF SOME SPECIES OF ALAPTUS (MYMARIDAE) PARASITISING EGGS OF PSOCOPTERA.
T R New
Soc Brit Entomol Trans 18(8):181-193 REF
Mar 1969 420 SO15
Host records, Host relationships, Life cycle, Mymaridae, Parasitic insects, Parthenogenesis, Psocoptera.

2626-69
SUB-ZERO MORTALITY RESPONSES OF TRIBOLIUM CONFUSUM DUVAL (TWO STOCKS) AND T. CASTANEUM (HERBST) (FOUR STOCKS) ANALYZED BY WEIGHTED REGRESSION LINES BASED ON INDIVIDUAL TEMPERATURE LD50 S.
J A Nowosielski-Slepowron F L Waterhouse D E A Strevens
Physiol Zool 41(4):440-446 REF
Oct 1968 410 P56
Insect physiology, Lethal dose, Temperature, Tribolium castaneum, Tribolium confusum.

2627-69
ESTERASES IN THE ONTOGENESIS OF THE HOUSE FLY MUSCA DOMESTICA. (RUS)
V S Odintzov V S Petrenko
Zool Zhur 48(1):146-148
Jan 1969 410 R92
Esterases, Insect biochemistry, Musca domestica, Ontogeny. English abstract

2628-69
HONEY BEES ESSENTIAL FOR POLLINATION OF APPLE TREES.
T Palmer-Jones P G Clinch
New Zeal J Agr 116(5):32-33
May 1968 23 N48J
Apis mellifera, Apples, Crop yields, Food habits, Pollination.

Experiments showed that honey bees were by far the most effective pollinators of apple trees and it is suggested that fruit growers would profit from a small investment in procurement of hives by the increase in fruit yields.

2629-69
ON THE PHOTOPERIODIC REACTION OF CHILOCORUS RENIPUSTULATUS SCRIBA (COLEOPTERA, COCCINELLIDAE).
G A Pantyukhov
Entomol Rev 47(1,JAN-MAR):26-29 REF
Mar 1968 421 R322AE
Coccinellidae, Insect diapause, Insect physiology, Photoperiodism, Temperature.

2630-69
THE DEVELOPMENT OF RESEARCH ON INSECT SECRETIONS. (IT)
M Pavan
Accad Naz Ital Entomol Atti 8:228-242 REF
1960 420 AC2
Glands (insects), Insect biology, Insect protective devices, Research, Secretion, Toxicity. French summary.

2631-69
AN EXPLANATION OF THE OSCILLATORY FREE-RUNS IN CIRCADIAN RHYTHMS.
T Pavlidis
Amer Natur 103(929,JAN-FEB):31-42 REF
28 Feb 1969 470 AM36
Diurnal rhythm, Drosophila pseudoobscura, Frequency distribution, Mathematical analysis, Rodents.

An effort is made to explain the fluctuations in the frequency of circadian oscillations in certain species under conditions of periodically variable illumination. It is hypothesized that if variations in light intensity are only a small fraction of its average value, then the system tends to ignore them and responds to the average according to Schiff's rule. Experimental data and computer simulation support this hypothesis.

2632-69
A SEROLOGICAL COMPARISON OF PISSODES STROBI AND P. APPROXIMATUS (COLEOPTERA: CURCULIONIDAE).
D J Peckham
Can Entomol 101(1):78-90 REF
Jan 1968 421 C16
Antigens, Curculionidae, Immunochemistry, Insect morphology, Insect rearing, Pissodes approximatus, Pissodes strobi, Serological tests.

2633-69
NEUROLEPTIC SUBSTANCES AND INSECT BEHAVIOR-- VI. THE INFLUENCE OF RESERPINE ON THE BODY WEIGHT OF TRIBOLIUM CONFUSUM. (FR)
J M Perron G W Corrivault L Huot
Compar Biochem Physiol 28(1):233-238 REF
Jan 1969 444.8 C73
Drug resistance, Insect physiology, Reserpine, Tribolium confusum.

2634-69
THE MECHANISMS BY WHICH BLASTOPHAGUS PINIPERDA L. (COL., SCOLYTIDAE) REACTS TO THE ODOUR OF AN ATTRACTANT FRACTION ISOLATED FROM PINE PHLOEM.
V Perttunen E Kangas H Oksanen
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(4):205-222 REF
1968 421 SU7
Attractants, Blastophagus piniperda, Insect behavior, Olfactory response, Phloem, Pinus, Plant extracts.

2635-69
PRELIMINARY RESULTS OF THE USE OF TWO EXPERIMENTAL INSECTICIDES AGAINST SOIL INSECTS AND LEPTINOTARSA DECEMLINEATA. (IT)
G Perugia P Napoli A Gallizia
Giornate Fitopatol 321-331
26 Mar 1967 SB599.G5
Bromophos, Chemical control (insects), Chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate, 2-, Elateridae, Leptinotarsa decemlineata, Melolontha melolontha.

2636-69
FAUNISTIC-ECOLOGICAL REVIEW OF SYNANTHROPIC DIPTERA IN THE SOUTH OF THE MARITIME TERRITORY.
B R Petrova
Entomol Rev 47(1,JAN-MAR):54-58 REF
Mar 1969 421 R322AE
Catalogs, Diptera, Insect ecology, Insect geography, Insect vectors.

2637-69
LABORATORY STUDIES ON THE LOCOMOTOR ACTIVITY OF CORYPHOSIMA STENOPTERA AND OTHER WEST AFRICAN ACRIDIDAE (INSECTA: ORTHOPTERA).
J Phipps
J Zool 155(3):395-400 REF
Jul 1968 410.9 L84P
Acrididae, Insect behavior, Insect physiology, Locomotion.

2638-69
HORMONAL CONTROL OF OVARIAN DEVELOPMENT IN A HETEROGONAL GALL MITE. (GE)
K Pohlhammer
Naturwissenschaften 56(1):39
Jan 1969 474 N213
Development, Heteropeza pygmaea, Insect hormones, Ovaries, Reproductive organs.

2639-69
DEVELOPMENT OF THE BEAK MUSCULATURE AND SCLERITES IN HETEROPTERA.
L V Puchrova
Entomol Rev 47(1,JAN-MAR):30-34 REF
Mar 1968 421 R322AE
Heteroptera, Insect evolution, Insect morphology, Metamorphosis, Mouth parts, Muscles.

2640-69
LABORATORY PROPAGATION OF THE PARASITE CHRYSOCHARIS LARICINELLAE (HYMENOPTERA: EULOPHIDAE) AND NOTES ON INTERACTION WITH ITS HOST, COLEOPHORA LARICELLA.
F W Quednau
Can Entomol 101(1):100-106
Jan 1969 421 C16
Chrysocharis laricinellae, Coleophora laricella, Eulophidae, Insect pests, Insect rearing, Laboratory animals, Larix laricina, Larvae, Parasites. French summary.

2641-69
EVOLUTION OF THE FUNCTION OF THE OVIPOSITOR IN RELATION TO THE ORIGIN OF PARASITISM IN HYMENOPTERA.
A P Rasnitsyn
Entomol Rev 47(1,JAN-MAR):35-40 REF
Mar 1968 421 R322AE
Hymenoptera, Insect evolution, Insect morphology, Paleoentomology, Parasitism.

2642-69
EXPERIMENTAL ANALYSIS OF PHENOLOGY OF THE EUROPEAN RED MITE PANONYCHUS ULMI KOCH (ACARINA, TETRANYCHIDAE). (RUS)
A P Rasumova
Zool Zhur 48(2):212-217
Feb 1969 410 R92
Diurnal rhythm, Insect ecology, Panonychus ulmi, Temperature. English abstract

2643-69
THE USE OF A CAPILLARY-TUBE TECHNIQUE FOR ARTIFICALLY FEEDING ARGAS REFLEXUS REFLEXUS TICKS.
U Rau C Hannoun
World Health Organ Bull 39(2):332-333
1968 449.9 W892B
Arboviruses, Argas persicus, Argas reflexus, Blood, Chickens, Feeding, Pigeons.

2644-69
PRELIMINARY STUDY ON THE EFFECT OF DIFFERENT DOSES OF NITROGEN ON THE INCIDENCE OF MAJOR PESTS OF MUSTARD.
R R Rawat U S Misra A V Thakar S V Dhamdhere
Madras Agr J 55(8):363-366
Aug 1968 22 M262
Brassica, Dosage, Insect population, Lipaphis erysimi, Nitrogen, Phytomyza atricornis, Plant pest resistance, Urea.

2645-69
CHANGES IN THE METABOLISM OF NUCLEIC ACIDS IN THE OVARIES OF THE HOUSE FLY, MUSCA DOMESTICA, AFTER APPLICATION OF CHEMOSTERILANTS.
B Rezabova
Acta Ent Bohemoslov 65(5):331-340 REF
20 Sep 1968 420 C33
Biological control (insects), Biosynthesis, Chemical control (insects), Chemosterilants, Deoxyribonucleic acid, Insect anatomy, Insect metabolism, Musca domestica, Neoplasms, Nucleic acids, Ovaries, Ribonucleic acid. Czech summary

2646-69
OBSERVATIONS ON RHOPALOSIPHUM PADI AND R. FITCHII (HOMOPTERA: APHIDIDAE) IN MANITOBA.
A G Robinson Y Chen
Can Entomol 101(1):110-112
Jan 1969 421 C16
Aphididae, Barley, Capsella bursa-pastoris, Chromosomes, Insect behavior, Insect ecology, Insect identification, Insect morphology, Oats, Poa pratensis, Poa trivialis, Rhopalosiphum fitchii, Rhopalosiphum padi, Wheat.

2647-69
ACETYLCHOLINESTERASE INSENSITIVITY IN THE BIARRA STRAIN OF THE CATTLE TICK BOOPHILUS MICROPLUS, AS A CAUSE OF RESISTANCE TO ORGANOPHOSPHORUS AND CARBAMATE ACARICIDES.
W J Roulston H J Schnitzerling C A Schuntner
Australian J Biol Sci 21(4):759-767 REF
Aug 1968 442.8 AU72
Acetylcholinesterases, Boophilus microplus, Carbamates, Enzymes, Insect metabolism, Organophosphorus compounds.

2648-69
IN VIVO ACTION OF EXTRACTS OF THE CORPORA CARDIACA ON THE CARDIAC RHYTHM OF LOCUSTA MIGRATORIA L. (FR)
J P Roussel M Cazal
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):581-583
20 Jan 1969 505 P21
Corpora cardiaca, Dorsal vessel, Insect physiology, Locusta migratoria.

2649-69
EXPERIENCES WITH THE HOUSE FLY, STERILIZED BY X RAYS. (IT)
G Sacca
Accod Noz Ital Entomol Atti 8:91-98 REF
1960 420 AC2
Biological control (insects), Dosage, Insect breeding, Irradiation, Musca domestica, Sterilization, X-rays. English summary.

2650-69
INSECT OLFACTION: DECIPHERING SYSTEM FOR CHEMICAL MESSAGES.
D Schneider
Science 163(3871):1031-1037 REF
07 Mar 1969 470 SC12
Cells, Chemicals, Chemoreceptors, Cuticle, Insect anatomy, Molecules, Olfactometers, Smell, Stimulants.

2651-69
VISUAL FORM DISCRIMINATION OF THE HONEY BEE WITHIN THE RANGE OF 6- AND 4-POINTED STARS. (GE)
B Schnetter
Z Vergleichende Physiol 59(1):90-109 REF
1968 444.8 Z3
Apis mellifera, Experimental insects, Insect behavior, Insect physiology, Tables (data), Vision. English summary.

2652-69
INVESTIGATIONS CONCERNING THE CONTROL OF THE APPLE MOTH (CARPOCAPSA POMONELLA (L.)) WITH THE HELP OF TRICHOGRAMMA EMBRYOPHAGUM (HARTIG). (ABSTRACT). (GE)
F Schutte J M Franz
Entomophaga 7(3):271-272
1962 421 EN835
Anagasta kuehniella, Biological control (insects), Carpocapsa pomonella, Dosage, Insect eggs, Parasitism, Sitotroga cerealella, Trichogramma embryophagum. Report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2653-69
MIMICRY OF HYMENOPTERA BY BEETLES WITH UNCONVENTIONAL FLIGHT.
R E Silberglied T Eisner
Science 163(3866):486-488
31 Jan 1969 470 SC12
Coleoptera, Hymenoptera, Insect behavior, Insect flight, Insect identification, Mimicry.

2654-69
MOSQUITO STUDIES IN NORTHERN WISCONSIN. II. LIGHT TRAPPING STUDIES.
R E Siverly G R DeFoliart
Mosquito News 28(2):162-167 MAP
Jun 1968 421 M85
Aedes, Anopheles, Culex, Culiseta, Demography, Insect ecology, Insect population density, Light traps, Mansonia perturbans, Seasonal variation.

The relative abundance and seasonal succession of adult mosquito populations of northern Wisconsin are described on the basis of 21,790 specimens representing 26 species collected by means of the light trap method.

2655-69
SENSE ORGANS ON THE ANTENNA OF A PARASITIC WASP, NASONIA VITRIPENNIS (HYMENOPTERA, PTEROMALIDAE).
E H Slifer
Biol Bull 136(2):253-263
Apr 1969 442.8 B52
Antennae, Chemoreceptors, Insect morphology, Insect physiology, Nasonia vitripennis.

2656-69
OVIPOSITION, DEVELOPMENT OF EGGS, AND CHROMOSOME COMPLEMENT OF EGGS OF VIRGIN FEMALES OF THE GRASSHOPPER MELANOPLUS SANGUINIPES.
D S Smith
Con Entomol 101(1):23-27 REF
Jan 1969 421 C16
Chromosomes, Experimental insects, Insect genetics, Insect morphology, Melanoplus sanguinipes, Oviposition, Parthenogenesis.

2657-69
METHODS FOR THE DETERMINATION OF POPULATION DYNAMICS IN ORCHARDS. (INCLUDING SAMPLING AND COLLECTION). (GE)
H Steiner
Entomophaga 7(3):207-214
1962 421 EN835
Insect collecting equipment, Insect populations, Methodology, Orchards, Pesticides, Tetranychidae. English summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2658-69
ABSOLUTE CONFIGURATION OF INOKOSTERONE, AN INSECT-MOULTING SUBSTANCE FROM ACHYRANTHES FAURIEI.
T Takemoto Y Hikino S Arihara H Hikino
Tetrohedron Lett (20):2475-2478 REF
Mar 1968 385 T29
Achyranthes fauriei, Hormones, Molting (insects), Plant extracts, Stereochemistry, Steroids.

2659-69
ISOLATION OF NEW POLYISOPRENYL KETONE FROM SILKWORM FECES.

M Toyoda H Fukawa T Shimizu
Tetrahedron Lett (35):3837-3840
Jul 1968 385 T29
Biochemistry, Bombiprenone, Bombyx mori, Feecs, Isoprenoids, Ketones, Molecular distillation, Morus.

2660-69
THE IMMIGRATION OF PIERIS BRASSICAE L. (LEP., PIERIDAE) INTO FINLAND IN 1966, WITH A GENERAL DISCUSSION ON INSECT MIGRATION.
K Vepsalainen
Suomen Hyonteistieteellinen Aikakauskir Ann Entomol Fenn 34(4):223-243 MAP REF
1968 421 SU7
Inseet migration, Pieris brassicae, Weather.

2661-69
A NEW ACTIVE ACARICIDE SUBSTANCE. (IT)
L Vieini
Giornate Fitopatol 411-414
26 Mar 1967 SB599.G5
Acaricides, Butylphenoxy) cyclohexyl 2-propynyl sulfite, 2-(p-tert-, Chemieal eontrol (insects), Panonyehus ulmi, Tetranyehus urticae.

2662-69
MORPHOLOGY AND BIOLOGY OF CULEX PIPIENS L. (DIPTERA, CULICIDAE) IN UZBEKISTAN.
Ye B Vinogradova R B Fomenko
Entomol Rev 47(1,JAN-MAR):1-4 REF
Mar 1968 421 R322AE
Culex pipiens, Demography, Inseet biology, Insect morphology, Inseet rearing, Ovaries, Oviposition.

2663-69
THE INFLUENCE OF SPRAY CHEMICALS ON PREDATORY- AND PHYTOPHAGOUS MITES ON APPLE TREES IN LABORATORY- AND FIELD TRIALS IN THE NETHERLANDS.
M van de Vrie
Entomophaga 7(3):243-250
1962 421 EN835
Apples, Chemieal control (inseets), Mites, Phytophagous mites, Predaeeous inseets, Spraying. German summary. report from First Colloquium on Integrated Control in Orehards, Sept. 5-9, 1961, Wageningen, Netherlands.

2664-69
BEEKEEPING METHODS IN NORTH AMERICA.
G M Walton
New Zeal J Agr 118(2):44-47
Feb 1969 23 N48J
Apieulture, Crop yields, Methodology, Pesticide residues, Pollen.

2665-69
RESPONSES OF APHIDS TO PRESSURE APPLIED TO LIQUID DIET BEHIND PARAFILM MEMBRANE. LONGEVITY AND LARVIPOSITION OF MYZUS PERSICAE (SULZ.) AND BREVICORYNE BRASSICAE (L.) (HOMOPTERA: APHIDIDAE) FEEDING ON SUCROSE AND SINIGRIN SOLUTIONS.
C H Wearing
New Zealand J Sci 11(1):105-121 REF
Mar 1968 514 N482
Barometrie pressure, Brevicoryne brassicae, Diet, Feeding, Larvae, Longevity, Myzus persicae, Reproduetion, Sinigrin, Suerose.

2666-69
LYSOZYME RETENTION BY COCKROACH PERIPLANETA AMERICANA L.
D R A Wharton
Science 163(3863):183-184
10 Jan 1969 470 SCI2
Blattidae, Blood, Muramidase, Periplaneta amerieana, Toxins.

2667-69
VARIATION AND DISTRIBUTION OF THE INTERTIDAL BEETLE HALOCORYZA ARENARIA (DARLINGTON) IN MEXICO AND THE UNITED STATES (COLEOPTERA: CARABIDAE).
D R Whitehead
N Y Entomol Soc J 77(1):36-39
Mar 1969 420 N48J
Carabidae, Habitats, Inseet geography, Inseet morphology, Littoral inseets.

2668-69
LABORATORY INVESTIGATIONS ON THE EFFECT OF INSECTICIDES ON THE LARVAE AND ADULTS OF COCCINELLA SEPTEMPUNCTATA L. (COL., COCCINELLIDAE).
S K Wiaekowski B Nowaeka
Pol Pismo Entomol 38(2):441-452
1968 421 P76
Chemical control (inseets), Coeeinella septempunetata, Coeeinellidae, Experimental inseets, Insectieide residues, Inseetieides, Inseets, Larvae, Plant protection, Statistical analysis, Toxieity. Polish summary. 12 insectieides were tested.

2669-69
CONCERNING THE POSSIBILITIES OF FORECASTING, SUPERVISING THE INSECT OUTBREAK AND ON TOLERANCE LIMITS IN THE INTEGRATED PEST CONTROL IN FRUIT CULTURES. (GE)
T Wildbolz
Entomophaga 7(3):273-283 REF
1962 421 EN835
Fruit culture, Insect outbreaks, Insect populations, Integrated control (pests), Mites, Tolerances. English summary. report from First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2670-69
SOME CONCLUDING REMARKS.
J de Wilde
Entomophaga 7(3):285-288
1962 421 EN835
Bacillus thuringiensis, Fungicides, Insect populations, Insecticides, Integrated control (pests), Parasitism, Plant pest control, Trichogramma. Concluding remarks on First Colloquium on Integrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2671-69
SCIENTIFIC RESULTS OF THE POLISH HINDU-KUSH EXPEDITION 1966. PART I. THE MIGRATION OF THE PAINTED LADY, PYRAMEIS (VANESSA) CARDUI L., IN THE HIGH HINDU-KUSH.
J Wojtusiak
Folia Biol (warsaw) 16(4):329-334 MAP
1968 442.8 F71
Insect behavior, Inseet migration, Vanessa eardui.

2672-69
REPRODUCTIVE ISOLATION BETWEEN TWO CLOSELY RELATED SPECIES OF THE QUEENSLAND FRUIT FLY, DACUS TRYONI (FROGG.) AND D. NEOHUMERALIS HARDY (DIPTERA: TEPHRITIDAE). I. VARIATION IN HUMERAL CALLUS PATTERN AND THE OCCURRENCE OF INTERMEDIATE COLOUR FORMS IN THE WILD.
H Wolda
Australian J Zool 15(3):501-513 REF
May 1967 410 AU73
Dacus neohumeralis, Dacus tryoni, Demography, Inseet geography, Insect morphology, Insect mutation, Inseet reproduction.

2673-69
GROSS BIOENERGETICS OF BLATTELLA GERMANICA.
D J Woodland B K Hall J Calder
Physiol Zool 41(4):424-431 REF
Oct 1968 410 P56
Blattella germanica, Inseet physiology, Methodology, Statistieal analysis.
In analyzing the bioenergeties of Blattella germanica, the equation, Ingestion minus Excretia equals Respiration plus Growth was used. The effieieney of assimilation was investigated, and all the factors were eompared among different age groups and sexes.

2674-69
OBSERVATIONS ON THE FLUORESCENCE AND FUNCTION OF SPIDERS' EYES.
M R Young F Wanless
J Zool 151(1):1-16 REF
Jan 1967 410.9 L84P
Eyes, Fluoreseenee, Fluoreseenee mieroscopy, Insect physiology, Phototropism, Spiders.

GENETICS

2675-69
CHROMOSOME ANALYSES OF QUANTITATIVE CHARACTERS IN DROSOPHILA MELANOGASTER.
A A Dewees
Diss Abstr Sect B 29(3)886B
Sep 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Heredity, Insect eggs, Inseet geneties, Insect morphology, Quantitative analysis.

2676-69
ON THE RESISTIBILITY OF DROSOPHILA TO SODIUM CHLORIDE. II. DIFFERENCES IN THE RESISTIBILITY AT DIFFERENT DEVELOPMENTAL STAGES.
Y Miyoshi K Nakamura
Jap J Genet 43(5):365-376 REF
Oct 1968 442.9 J27
Drosophila melanogaster, Insect geneties, Insect morphology, Insecticide resistant insects, Larvae, Sodium chloride.

2677-69
INFLUENCE OF MEDIUM AND STOCK ON THE ROLE OF NATURAL IRRADIATION ON DROSOPHILA MELANOGASTER. (FR)
H Planel J-p Soleilhavoup M-c Giess
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):584-587
20 Jan 1969 505 P21
Demography, Drosophila melanogaster, Inseet breeding, Inseet genetics, Irradiation.

2678-69
INVERSIONAL POLYMORPHISM IN BOOPHTORA ERYTHROCEPHALA (SIMULIIDAE, DIPTERA). (RUS)
G G Poliankaya R I Tzapygina
Genetika 4(5):70-79 REF
1968 QH431.A1G4
Chromosomes, Diptera, Insect genetics, Larvae, Polymorphism. English summary.

2679-69
NON-RANDOM ASSORTMENT OF CHROMOSOME PAIRS AND MEIOTIC DRIVE IN DROSOPHILA MELANOGASTER.
R K Sakai
Diss Abstr Sect B 29(3):890B
Sep 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Insect geneties, Meiosis.

2680-69
ON THE PROBLEM OF HETEROZYGOSITY WITH RESPECT TO PUFFS AND TO THE STRUCTURE OF SEPARATE BANDS IN THE GIANT CHROMOSOMES OF TWO SPECIES OF BLACK-FLIES (SIMULIIDAE, DIPTERA). (RUS)
E S Shcherbakov
Genetika 4(5):60-69 REF
1968 QH431.A1G4
Chromatin, Chromosomes, Diptera, Insect geneties, Odagmia ornata. English summary.

2681-69
STUDIES ON THE SCUTELLAR BRISTLES OF DROSOPHILA MELANOGASTER. I. BASIC VARIABILITY, SOME TEMPERATURE AND CULTURE EFFECTS, AND RESPONSES TO SHORT-TERM SELECTION IN THE OREGON-RC STRAIN.
B L Sheldon
Australian J Biol Sci 21(4):721-740 REF
Aug 1968 442.8 AU72
Drosophila melanogaster, Insect breeding, Insect genetics, Insect morphology, Temperature.

2682-69
COMPARATIVE ANALYSIS OF SPONTANEOUS ANEUPLOIDY IN MALES AND FEMALES OF DROSOPHILA. (RUS)
K V Vatti M M Tikhomirova
Genetika (5):105-110 REF
1967 QH431.A1G4
Chromosomes, Drosophila, Insect genetics, Insect rearing, Meiosis, Oogenesis, Polyploidy, Sex determination, Spermatogenesis. English summary

2683-69
A SEX-RATIO ABERRATION IN DROSOPHILA MELANOGASTER (MEIGEN).
J E Watson
Diss Abstr Sect B 29(3):892B
Sep 1968 Z5055.U49D53
Chromosomes, Drosophila melanogaster, Insect abnormalities, Insect morphology, Reproduction, Sex ratios.

2684-69
REPRODUCTIVE ISOLATION BETWEEN TWO CLOSELY RELATED SPECIES OF THE QUEENSLAND FRUIT FLY, DACUS TRYONI (FROGG.) AND D. NEOHUMERALIS HARDY (DIPTERA: TEPHRITIDAE). II. GENETIC VARIATION IN HUMERAL CALLUS PATTERN IN EACH SPECIES AS COMPARED WITH LABORATORY-BRED HYBRIDS.
H Wolda
Australian J Zool 15(3):515-539
May 1967 410 AU73
Dacus neohumeralis, Dacus tryoni, Hybrids, Insect color, Insect genetics, Insect rearing, Insect reproduction.

MEDICAL ENTOMOLOGY

2685-69
ISOLATION OF MYCOPLASMAS.
Nature 220(5168):649
16 Nov 1968 472 N21
Diagnosis, Epidemiology, Human diseases, Mycoplasma, Mycoplasmosis. Report of International Symposium on Mycoplasma Diseases of Man, East Germany on Oct. 2-5.

2686-69
A REFINEMENT IN AERIAL APPLICATIONS OF PARIS GREEN GRANULES.
T O Fultz F Harris
Mosquito News 28(3):323-326
Sep 1968 421 M85
Aedes sollicitans, Aerial insect control, Aircraft, Chemical control (insects), Insect control, Methodology, Organic compounds.

The author discusses the techniques used in the aerial application of paris green granules in Georgia for mosquito control.

2687-69
A FEASIBILITY STUDY ON THE UTILIZATION OF MONOMOLECULAR FILMS FOR MOSQUITO ABATEMENT.
G A Lorenzen W W Meinke
Mosquito News 28(2):230-232
Jun 1968 421 M85
Alcohols, Chemical control (insects), Culex quinquefasciatus, Insect control, Interfacial tension, Larvicides.

2688-69
INSECTICIDE SUSCEPTIBILITY STUDIES IN INDIAN STRAINS OF AEDES AEGYPTI L..
B V R Madhukar M K K Pillai
Mosquito News 28(2):222-225 MAP REF
Jun 1968 421 M85
Aedes aegypti, Chemical control (insects), Chlorinated hydrocarbons, Insecticide resistant insects.

2689-69
RESEARCH ON A TYPE OF DAM SPILLWAY UNFAVORABLE TO THE PROLIFERATION OF SIMULIUM DAMNOSUM (DIPTERA) SIMULIIDAE). (FR)
G Quelennec E Simonkovich M Ovazza
World Health Organ Bull 38(6):943-956
1968 449.9 W892B
Dams, Human diseases, Insect vectors, Onchocerca volvulus, Onchocerciasis, Public health, Simuliidae, Simulium damnosum. English summary.

2690-69
STUDIES ON YELLOW FEVER IN ETHIOPIA. 6. EPIDEMIOLOGICAL STUDY. (FR)
C Serie L Andral A Poirier A Lindree P Neri
World Health Organ Bull 38(6):879-884
1968 449.9 W892B
Aedes africanus, Epidemiology, Human diseases, Insect vectors, Mortality, Yellow fever. English summary.

2691-69
APHOLATE AND GAMMA IRRADIATION COMPARED AS STERILANTS FOR CULEX PIPIENS QUINQUEFASCIATUS SAY (DIPTERA: CULICIDAE).
B J Smittle G A Mount M Das N Rajapaksa
Mosquito News 28(2):201-204 REF
Jun 1968 421 M85
Apholate, Biological control (insects), Chemosterilants, Culex pipiens quinquefasciatus, Gamma rays, Irradiation, Sterilization.

2692-69
ECOLOGICAL CONSIDERATIONS IN SCRUB TYPHUS. 1. EMERGING CONCEPTS. 2. VECTOR SPECIES. 3. METHODS OF AREA CONTROL.
R Traub C L Wisseman
World Health Organ Bull 39(2):209-237 REF
1968 449.9 W892B
Aldrin, Birds, Carbamates, Chemical control (insects), Dieldrin, Ecology, Fenthion, Human diseases, Insect vectors, Isopropoxyphenyl N-methylcarbamate, 2-, Leptotrombidium, Lindane, Mammals, Organophosphorus compounds, Rodents, Scrub typhus, Trombiculidae, Zoogeography. French summary

CROP PROTECTION

2693-69
INTEGRATED CONTROL OF PESTS IN ORCHARDS.
H J de Fluiter
Entomophaga 7(3):199-206
1962 421 EN835
Bacillus thuringiensis, Biological control (insects), Chemical control (insects), Insecticides, Integrated control (pests), Orchards, Spraying. French summary. report from First Colloquium on Inegrated Control in Orchards, Sept. 5-9, 1961, Wageningen, Netherlands.

2694-69
THE POSSIBILITY OF THE USE OF SOME BIOLOGICAL ANALYTICAL TECHNIQUES FOR THE CONTROL OF THE SAFETY PERIODS OF PESTICIDES. (IT)
S Foschi A Cesari E Olmo B Guiati R Stanzani A Bruncelli
Giornate Fitopatol 133-139 REF
26 Mar 1967 SB599.G5
Biology, Crops, Drosophila melanogaster, Harvesting date, Pesticide application, Pesticides, Plant protection, Time, Tolerances. Tests were conducted with 9 pesticides.

2695-69
VARIATION IN THE SMUT FUNGI.
C S Holton J A Hoffman R Duran
Annu Rev Phytopathol 6:213-242 REF
1968 464.8 AN72
Fungi, Plant morphology, Plant physiology, Smut.

2696-69
THE CURRENT IMPORTANCE OF PLANT PROTECTION. (IT)
L Lintas G Goidanich M M Principi S Toschi
Giornate Fitopatol 11-19
26 Mar 1967 SB599.G5
Acaricides, Chemical control (pests), Chemosterilants, Fungicides, Insecticides, Legislation, Nematocides, Plant diseases, Plant protection, Tolerances.

2697-69
MOISTURE LOSS AFTER APPLICATION OF SOIL FUMIGANTS.
C C Orr O H Newton
Plant Dis Rep 53(2):163-164
Feb 1969 1.9 P69P
Equipment, Pesticide application, Seedbeds, Soil fumigation, Soil moisture, Soil series.

2698-69
POLLINATION OF SOME TUNDRA PLANTS WITH MINIATURE FLOWERS ON NIWOT RIDGE IN BOULDER COUNTY, COLORADO.
B W Peterson
Diss Abstr Sect B 29(3):882B
Sep 1968 Z5055.U49D53
Fertilization (plants), Flowers, Insect pollinators, Pollination. Seven tundra species discussed.

2699-69
THE GROWTH PROCESS IN FUNGI.
N F Robertson
Annu Rev Phytopathol 6:115-136 REF
1968 464.8 AN72
Aging, Fungi, Growth factors, Plant physiology, Plant reproduction, Plant water relations.

2700-69
BIRDS AND PLANT PROTECTION-A REPLY.
H Schonbeck
Pflanzenarzt 20(8):84-85
01 Aug 1967 464.9 P482
Birds, Legislation, Pesticide residues, Plant protection, Wildlife pests.

2701-69
INVESTIGATION CONCERNING THE NECTAR AND HONEY PRODUCTION OF THE QUINCE (CYDONIA VULGARIS PERS.). (BU)
T Simidchiev
Vissh Selskostopanski Inst Vasil Kolarov Nauch Tr 16(2):241-253 REF
1967 106.3 P72
Bees, Fruit culture, Honey, Nectar, Plant physiology, Quinces. German and Russian summaries.

2702-69
FACTS AND FICTION CONCERNING THE FOREST AND SILVICULTURE. (FR
H Sirier
Phytoma 20(199):27-36
Jun 1968 464.8 P563
Balance of nature, Biological control (insects), Chemical control (insects), Forests, Silviculture. Review of Les Francais et leur foret by R. Fevrier 126p., Editions Hubert Baille, Paris, France 1968.

DISEASES

2703-69
THE INFLUENCE OF LATENT APPLE VIRUSES ON THE GROWTH OF VARIOUS ORNAMENTAL APPLES. (GE)

F Afscharpour L Kunze
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):157-161
Feb 1967 410.9 G31M
Apples, Crop varieties, Latent virus, Ornamental trees, Plant grafting, Plant physiology, Rootstocks, Virus diseases (plants). English abstract

2704-69
EFFECT OF MALEIC HYDRAZIDE ON WHEAT AND BARLEY AGAINST DIFFERENT RUSTS.
S T Ahmad S Singh
Indian J Agr Sci 38(4):620-622
Aug 1968 22 AG83I
Barley, Fungus diseases (plants), Maleic hydrazide, Plant disease resistance, Puceinia, Rust, Wheat.

2705-69
GLOEOSPORIUM.
Anonymous
Rubber Res Inst Malaya Plant Bull (97):110-113
Jul 1968 78:9 R825
Chemical control (plant diseases), Dusting, Fertilizers, Fungicides, Fungus diseases (plants), Gloeosporium, Humidity, Oidium, Symptomatology, Weather.

2706-69
A NEW PROMISING SYSTEMIC FUNGICIDE AGAINST CERCOSPORA. (IT
C Antonelli A Ponti-Sgarbi
Giornate Fitopatol 179-183
26 Mar 1967 SB599.G5
Cercospora, Chemical control (plant diseases), Fentin acetate, Fungus diseases (plants), Sugar beets, Testing, Thiazolyl)-benzimidizole, 2-(4-.

2707-69
FOMES ANNOSUS AND CHEMICAL STUMP TREATMENT IN VIRGINIA--A THREE-YEAR STUDY.
J D Artman D H Frazier C L Morris
Plant Dis Rep 53(2):108-110
Feb 1969 1.9 P69P
Borax, Chemical control (plant diseases), Fomes annosus, Fungus diseases (plants), Pinus taeda, Urea.

2708-69
MECHANISMS OF BIOLOGICAL CONTROL OF SOIL-BORNE PATHOGENS.
R Baker
Annu Rev Phytopathol 6:263-294 REF
1968 464.8 AN72
Antibiosis, Biological control (plant diseases), Lysis, Soil-borne plant diseases.

2709-69
CONCENTRATION OF POTATO-M-VIRUS IN POTATOES AND TOMATOES. (GE
R Bartels
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):118-124
Feb 1967 410.9 G31M
Plant morphology, Potatoes, Serological tests, Tomatoes, Virus diseases (plants), Virus m, Virus s. English abstract.

2710-69
PROBLEMS IN PLANT VIRUS INVESTIGATIONS. (GE)
R Bereks
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):97-108 REF
Feb 1967 410.9 G31M
Electron microscopy, Plant diseases, Research, Virus diseases (plants). English abstract

2711-69
EPIDEMIOLOGY AND CONTROL OF BROWN ROT OF SOUR CHERRIES INCITED BY MONILINIA FRUCTICOLA (WINT.) HONEY.
D A Biris
Diss Abstr Sect B 29(3):833B-334B
Sep 1968 Z5055.U49D53
Brown rot, Chemical control (plant diseases), Epidemiology, Fruit rot, Fungus diseases (plants), Monilinia fructicola, Sour cherries.

2712-69
EXPERIMENTAL TESTS WITH THIABENDAZOLE AGAINST CERCOSPORA BETICOLA SACC. (IT)
G C Bongiovanni
Giornate Fitopatol 185-189
26 Mar 1967 SB599.G5
Cercospora beticola, Chemical control (plant diseases), Fentin acetate, Fungus diseases (plants), Testing, Thiazolyl)-benzimidizole, 2-(4-.

2713-69
WHERE DOES POTATO BLIGHT COME FROM .
A E W Boyd
Scot Agr 46(2,SPRING):78-82
1967 10 SCO82SO
Blight, Plant disease control, Plant disease transmission, Potatoes, Seasonal variation.

2714-69
ELECTRON MICROSCOPY OF PLANT VIRUSES. BIBLIOGRAPHY 1935-1965.
J Brandes
Berlin Biol Bundesanst Land-forstwirtsch Mitt (122):1-91
May 1967 410.9 G31M
Bibliography, Electron microscopy, Insect vectors, Methodology, Morphology, Plant hosts, Taxonomy, Virus diseases (plants). Citations also in German

2715-69
AERIAL PHOTOGRAPHY FOR THE STUDY OF PLANT DISEASES.
G H Brenehley
Annu Rev Phytopathol 6:1-22 REF
1968 464.8 AN72
Aerial photography, Air-borne plant diseases, Environment, Epidemiology, Plant diseases, Quantitative analysis.

2716-69
THE RECOVERY OF GIBBERELLA ZEAE FROM WHEAT STRAWS.
L W Burgess D M Griffin
Australian J Exp Agr Anim Husb 8(32):364-370 REF
Jun 1968 23 AU792
Fungus diseases (plants), Gibberella zeae, Plant physiology, Soil moisture, Soil temperature, Straw, Wheat.

2717-69
EARLY STAGES OF PATHOGENESIS ENGENDERED BY ERWINIA AMYLOVORA IN APPLE AND PEAR TISSUE.
A Burkowicz
Diss Abstr Sect B 29(3):834B
Sep 1968 Z5055.U49D53
Apples, Bacterial diseases (plants), Erwinia amylovora, Pears, Plant diseases, Plant physiology, Tissues.

2718-69
MULTIVESICULAR BODIES IN SCLEROTINIA FRUCTIGENA AND THEIR POSSIBLE RELATION TO EXTRACELLULAR ENZYME SECRETION.
F D Calonge A H Fielding R T W Byrde
J Gen Microbiol 55(2):177-184 REF
Feb 1969 448.3 J823
Cytology, Electron microscopy, Enzymes, Extracellular substances, Histochemistry, Physiology, Sclerotinia fructigena, Secretion, Tissue culture.

2719-69
WESTERN GALL RUST ON JACK PINE NURSERY STOCK IN MANITOBA.
L W Carlson
Plant Dis Rep 53(2):100
Feb 1969 1.9 P69P
Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Nurseries, Peridermium harknessii, Pinus banksiana, Plant galls, Rust.

2720-69
CONTRIBUTIONS CONCERNING THE DEFENSE AGAINST AGROBACTERIUM TUMEFACIENS. (IT)
B Casarini
Giornate Fitopatol 271-285
26 Mar 1967 SB599.G5
Agrobacterium tumefaciens, Chemical control (plant diseases), Fumigants, Oxytetracycline, Soil sterilization.

2721-69
A NEW SPECIES OF PESTALOTIA ON THE LEAVES OF PHOENIX RUPICOLA ANDER.
S Chandra R N Tandow
Cur Sci 38(2):47-48
20 Jan 1969 475 SC123
Dates, Fungus diseases (plants), Mieroseopy, Pestalotia, Plant morphology.

2722-69
STUDIES OF PEANUT STUNT VIRUS ON TRIFOLIUM SPECIES, ESPECIALLY TRIFOLIUM REPENS L.
D Choopanya
Diss Abstr Sect B 29(3):835B
Sep 1968 Z5055.U49D53
Clover, Epidemiology, Peanuts, Research, Stunt, Virus diseases (plants), White clover.

2723-69
RELATIONS OF DISEASE RESISTANCE MECHANISMS TO PATHOGEN DYNAMICS IN OAT CROWN RUST EPIDEMIOLOGY.
B C Clifford
Diss Abstr Sect B 29(3):835-836B
Sep 1968 Z5055.U49D53
Crown rust, Epidemiology, Fungus diseases (plants), Oats, Plant disease resistanee, Plant genetics, Puceinia coronata, Research.

2724-69
VIRUS DISEASES OF LETTUCE.
L J Cock
Great Brit NAAS (nat Agr Adv Serv) Quart Rev (79,SPRING):126-138 REF
1968 241 G796
Catalogs, Chemical control (inseets), Disease transmission, Insect vectors, Lettuce, Symptomatology, Virus diseases (plants).

The virus diseases of lettuce in Britain are listed and their symptoms, transmission, and control methods are described.

2725-69
NECROSIS IN LEAVES INDUCED BY VOLATILE MATERIALS PRODUCED IN VITRO BY BACTERIA.
A A Cook R E Stall
Phytopathology 59(2):259-260
Feb 1969 464.8 P56
Baeteria, Bacterial diseases (plants), Bush redpeppers (vegetable), Cabbage, Leaves, Necrosis, Tobacco, Tomatoes, Xanthomonas phaseoli, Xanthomonas vesicatoria. Other baeteria tested:Erwinia earotovora, E. amylovora, Pseudomonas cichorii, P. tabaci, P. fluoreseens.

2726-69
AEROBIOLOGY OF MONILINIA (SCLEROTINIA) LAXA (ADERH. AND RUHL.) HONEY ON STONE FRUITS, PRUNUS SPP., IN CALIFORNIA.
J B Corbin
Diss Abstr Sect B 29(3):836B
Sep 1968 Z5055.U49D53
Apricots, Brown rot, Fungus diseases (plants), Monilinia laxa, Plant diseases, Prunus, Research.

2727-69
DISTRIBUTION OF VERTICILLIUM WILT IN COTTON-GROWING AREAS OF THE UNITED STATES.
J R Cotton J T Presley F Darvish
Plant Dis Rep 53(2):116-117 MAP
Feb 1969 1.9 P69P

Cotton, Epidemiology, Fungus diseases (plants), Verticillium, Wilt.

2728-69
CYLINDROCLADIUM SCOPARIUM ON AZALEA IN SOUTH FLORIDA.
R S Cox
Plant Dis Rep 53(2):139
Feb 1969 1.9 P69P
Azalea, Blight, Chemical control (plant diseases), Colletotrichum, Cylindrocladium scoparium, Fungicides, Fungus diseases (plants), Gloeosporium, Glomerella, Spraying, Wilt.

2729-69
DNA BASE COMPOSITION AND HYBRIDIZATION IN THE TAXONOMY OF PHYTOPATHOGENIC BACTERIA.
J De Ley
Annu Rev Phytopathol 6:63-90 REF
1968 464.8 AN72
Agrobacterium, Bacterial diseases (plants), Breeding, Corynebacterium, Deoxyribonucleic acid, Erwinia, Pseudomonas, Rhizobium, Tables (data), Taxonomy, Xanthomonas.

2730-69
A PRELIMINARY STUDY ON THE VARIABILITY OF XANTHOMONAS ORYZAE ON SOME RICE VARIETIES.
S Devadath S Y Padmanabhan
Plant Dis Rep 53(2):145-148 REF
Feb 1969 1.9 P69P
Bacterial diseases (plants), Blight, Breeding, Crop varieties, Plant disease resistance, Rice, Xanthomonas oryzae.

2731-69
CONTROL OF TOBACCO MOSAIC VIRUS IN TOBACCO.
A D Doyle
Agr Gaz New S Wales 79(2):90-94
Feb 1968 23 N472
Cultural control (plant diseases), Milk, Plant disease control, Plant disease transmission, Sap, Seedbeds, Spraying, Symptomatology, Tobacco, Tobacco mosaic virus.

2732-69
ERADICATING CITRUS CANKER FROM NEW ZEALAND.
D W Dye
New Zeal J Agr 118(2):20-21
Feb 1969 23 N48J
Bacterial diseases (plants), Canker, Citrus, Cultural control (plant diseases), Xanthomonas, Zoogeography.

The symptoms of bacterial citrus canker are discussed and it is recommended that any tree having the disease be destroyed.

2733-69
INOCULUM PRODUCTION AND INFECTION BY FOLIAGE PATHOGENS.
A H Ellingboe
Annu Rev Phytopathol 6:317-330 REF
1968 464.8 AN72
Fungi, Inoculum, Parasitism, Plant biochemistry, Plant diseases, Quantitative analysis.

2734-69
STUDIES ON VIRUS DISEASES OF STRAWBERRIES IN THE WESTERN CAPE PROVINCE. II. THE LATENT PERIOD OF MILD YELLOWEDGE AND CRINKLE VIRUSES IN THE VECTOR CHAETOSIPHON FRAGAEFOLII (CKLL.).
D J Engelbrecht
S Afr J Agr Sci 10(3):575-581
Sep 1967 24 SU3
Chaetosiphon fragaefolii, Crinkle, Insect vectors, Plant disease transmission, Strawberries, Virus diseases (plants), Yellow edge.

2735-69
RESISTANCE IN FLORIDA CITRUS TO CERCOSPORA CITRI-GRISEA.
F E Fisher
Plant Dis Rep 53(2):112-114
Feb 1969 1.9 P69P
Cercospora citrigrisea, Citrus, Fungus diseases (plants), Plant disease resistance.

2736-69
PHENOLIC SUBSTANCES AND OXIDASES IN CONNECTION WITH THE RESISTANCE OF BARLEY TO THE POWDERY MILDEW (ERYSIPHE GRAMINIS F. SP. HORDEI MARCHAL). (GE)
F Frie
Biologia (bratislava) 24(1):54-69 REF
24 Jan 1969 442.8 B5265
Barley, Erysiphe graminis, Fungus diseases (plants), Oxidases, Phenol compounds, Plant biochemistry, Plant disease resistance, Powdery mildew.

2737-69
GENETICS OF PATHOGENICITY OF PHYTOPHTHORA INFESTANS.
M E Gallegly
Annu Rev Phytopathol 6:375-396 REF
1968 464.8 AN72
Cytology, Fungus diseases (plants), Hereditary diseases, Late blight, Phytophthora infestans, Plant disease resistance, Plant genetics, Potatoes, Tomatoes.

2738-69
DIPLODIA ZEAE (SCHW.) LEV. AND GIBBERELLA ZEAE (SCHW.) PETCH. BEHAVIOR AGAINST CALCIUM CYANAMIDE. (IT)
P Gambogi
Agr Ital 68(2,MAR-APR):81-83
1968 16 AG8259
Calcium cyanamide, Corn, Diplodia zeae, Fungicides, Fungus diseases (plants), Gibberella zeae. English summary.

2739-69
TESTS CONCERNING THE CONTROL OF THE WHITE ROT OF GARLIC. (IT
A Garibaldi
Giornate Fitopatol 249-250
26 Mar 1967 SB599.G5
Chemical control (plant diseases), Fungus diseases (plants), Garlic, Sclerotium cepivorum, White rot.

2740-69
VESICULAR-ARBUSCULAR MYCORRHIZA AND PLANT GROWTH.
J W Gerdemann
Annu Rev Phytopathol 6:397-418 REF
1968 464.8 AN72
Environment, Epidemiology, Fungus diseases (plants), Mycorrhiza, Plant morphology, Plant physiology, Roots.

2741-69
DOWNY MILDEW OF STOCKS.
A L Gertus
Agr Gaz New S Wales 79(3):178-179
Mar 1968 23 N472
Downy mildew, Fungicides, Fungus diseases (plants), Matthiola incana, Peronospora parasitica, Plant disease transmission, Symptomatology, Zineb.

Downy mildew of stock (Matthiola incana) is caused by the fungus Peronospora parasitica. The symptoms, transmission, and chemical control of this disease are discussed.

2742-69
A FISSURE OF PHYSIOLOGICAL ORIGIN IN CARNATION PLANTS. (IT
R Gigante
Giornate Fitopatol 611-614
26 Mar 1967 SB599.G5
Dianthus caryophyllus, Humidity, Osmotic pressure, Parenchyma tissue, Plant physiological diseases, Symptomatology. Symptoms can be mistaken for those produced by Pseudomonas caryophylli.

2743-69
A PHYSIOLOGICAL DEFOLIATION OF THE ROSE. (IT)
R Gigante G Bestagno
Giarnate Fitopatol 615-619
26 Mar 1967 SB599.G5
Defoliation, Humidity, Plant physiological diseases, Rosa, Symptomatology, Temperature.

2744-69
SEROLOGICAL RELATIONSHIPS OF PHYSIOLOGIC RACES A-1 TO A-8 OF PHYTOPHTHORA FRAGARIAE.
H S Gill D Powell
Phytopathology 59(2):261-262 REF
Feb 1969 464.8 P56
Antigens, Electrophoresis, Fungus diseases (plants), Neurospora crassa, Nutrient solutions (plants), Phytophthora caetorum, Phytophthora fragariae, Serological tests.

2745-69
RHYNCHOSPORIUM LEAF BLOTCH OF BARLEY.
J Gilmour
Scot Agr 46(1,WINTER):34-36
1966 10 SCO82SO
Barley, Diagnosis, Fungus diseases (plants), Leaf blotch, Mercury compounds, Plant disease control, Plant disease transmission, Rhynchosporium, Seed treatment.

The symptomatology and etiology of rhynchosporium leaf blotch of barley is discussed. Recommended control measures are seed selection and treatment with methyl- organomercury compounds as well as crop rotation and tilling of crop residues.

2746-69
INTERPRETING PLANT DISEASE DISPERSAL GRADIENTS.
P H Gregory
Annu Rev Phytopathol 6:189-212 REF
1968 464.8 AN72
Fungus diseases (plants), Late blight, Leaf roll, Mathematical analysis, Plant disease transmission, Potatoes, Puccinia polysora, Rhizoctonia, Virus diseases (plants).

2747-69
SOME PRELIMINARY OBSERVATIONS ON CROWN GALL THERAPY WITH CHEMICALS.
H W Guengerich R N Goodman D F Millikan
Plant Dis Rep 53(2):155-157
Feb 1969 1.9 P69P
Chelating agents, Chemical control (plant diseases), Copper compounds, Crown galls, Cyanoguanidine, Oxytetracycline, Peaches, Plant diseases, Seed treatment.

2748-69
DISEASES OF CORN AND SOYBEANS IN RIO GRANDE DO SUL, BRAZIL IN 1968.
D J Hagedorn J P Crill
Plant Dis Rep 53(2):165-168
Feb 1969 1.9 P69P
Bacterial diseases (plants), Blight, Corn, Epidemiology, Plant ecology, Rust, Soybeans.

2749-69
LATENT VIRUSES IN APPLE VARIETIES AND GRAFTING STOCK. (GE)
G Hamdorf
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):152-156
Feb 1967 410.9 G31M
Apples, Crop varieties, Latent virus, Plant disease transmission, Plant grafting, Rootstocks, Virus diseases (plants). English abstract.

2750-69
ON THE EFFECT OF FAT EMULSION ON VIRUS TRANSMISSION. (GE)
A Hein
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):109-112
Feb 1967 410.9 G31M
Corn oil, Emulsions, Plant disease transmission, Virucides, Virus diseases (plants), Viruses. English abstract

2751-69
THE INFLUENCE OF HERBICIDES ON CERCOSPORELLA INFECTION AND LODGING OF WINTER WHEAT. (GE)
R Heitefuss
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):218-225
Feb 1967 410.9 G31M
Cercosporella herpotrichoides, Chemical control (plant diseases), Fungus diseases (plants), Herbicides, Lodging, Monolinuron, Simazine, Wheat. English abstract.

2752-69
TRENDS IN THE DEVELOPMENT OF PLANT VIROLOGY.
F O Holmes
Annu Rev Phytopathol 6:41-62 REF
1968 464.8 AN72
Crop losses, Plant disease control, Plant disease transmission, Quantitative analysis, Symptomatology, Virology, Virus diseases (plants).

2753-69
LONG-TERM PRESERVATION AND PATHOGENICITY OF SELECTED STRAINS OF COLLETOTRICHUM, RHIZOCTONIA, AND PHYTOPHTHORA. (ABSTRACT).
S W Hwang A L Anderson G C Papavizas R H Converse
Phytopathology 57(8):816
Aug 1967 464.8 P56
Colletotrichum, Freezing, Fungus diseases (plants), Phytophthora, Rhizoctonia.

2754-69
INHERITANCE OF RESISTANCE TO BACTERIAL BLIGHT OF COTTON. IV. TANZANIA SELECTIONS.
N L Innes
J Agr Sci &london& 72(1):41-57 REF
Jan 1969 10 J822
Bacterial blight, Cotton, Plant breeding, Plant disease resistance, Plant genetics.

2755-69
FUNGICIDAL CONTROL OF DISEASE IN COTTON.
A J Kappelman
Plant Dis Rep 53(2):161-163
Feb 1969 1.9 P69P
Chemical control (plant diseases), Cotton, Environment, Fungicides, Fungus diseases (plants), Mortality, Seed treatment.

2756-69
THE MULTIPLICITY OF BANDS IN THE GEL DIFFUSION PRECIPITIN ANALYSIS OF THE PROTEIN OF TOBACCO MOSAIC VIRUS.
A Kleczkowski
Virology 36(4):700-701
Dec 1968 448.8 V81
Diffusion, Gels, Mosaic, Precipitin test, Proteins, Tobacco, Virus diseases (plants).

2757-69
CHICKPEA, A NEW HOST OF FUSARIUM SOLANI F. SP. PISI.
J M Kraft
Plant Dis Rep 53(2):110-111
Feb 1969 1.9 P69P
Chickpeas, Fungus diseases (plants), Fusarium solani pisi, Peas, Plant disease resistance, Root rot.

2758-69
PROTEIN-LIPID-POLYSACCHARIDE COMPLEX FROM THE CULTURE AND MYCELIUM OF THE FUNGUS VERTICILLIUM DAHLIAE KLEB, THE CAUSATIVE AGENT OF VERTICILLIACEOUS WILT OF COTTON.
K M Malysheva S S Zel'tser
Acod Sci U Ssr Dokl Bot Sci 179(MAR-APR):51-54 REF
1968 511 P444AE
Cotton, Culture media, Fungus diseases (plants), Lipids, Mycelium, Polysaccharides, Proteins, Verticillium dahliae, Wilt. Translated from Russian.

2759-69
THE INHERITANCE OF RESISTANCE TO STEM AND CROWN RUST IN KYTO OATS.
J W Martens R I H McKenzie G Fleischmann
Can J Genet Cytol 10(4):808-812
Dec 1968 443.8 C16
Crop varieties, Crown rust, Fungus diseases (plants), Oats, Plant genetics, Resistance, Stem rust, Temperature.

2760-69
RESIDUAL EFFECT OF TREATMENT WITH METHYL BROMIDE AGAINST VERTICILLIUM INFECTION OF TOMATOES IN THE SECOND YEAR OF CULTIVATION. (IT)
A Matta A Garibaldi
Giornate Fitopatol 241-243
26 Mar 1967 SB599.G5
Fumigants, Fungus diseases (plants), Methyl bromide, Soil fumigation, Tomatoes, Verticillium dahliae.

2761-69
A DAY OF STUDY ON THE PELARGONIUM. (FR)
J Mimaud
Phytoma 20(199)21-23
Jun 1968 464.8 P563
Conferences, Flowers, Fungus diseases (plants), Insect pests, Pelargonium, Plant galls, Seedlings, Virus diseases (plants), Xanthomonas. Report on a conference on Pelargonium held at Paris, France on 24 Feb 1968.

2762-69
APPLE AND PEAR CANKER.
Great Brit Min Agr Fish Food Adv Leafl (100):1-4
Apr 1968 10 G79LA
Apples, Bordeaux mixture, Canker, Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Mercury compounds, Nectria galligena, Pears, Plant disease transmission, Plant grafting, Plant injuries, Pruning, Symptomatology.

The fungal agent, symptoms, transmission and control measures of apple and pear canker are discussed. Cultural control by pruning diseased wood, scaling tree injuries, burning diseased cuttings and top-grafting and chemical control with mercury compounds and Bordeaux mixture are recommended.

2763-69
CAULIFLOWER MOSAIC.
Great Brit Min Agr Fish Food Adv Leafl (370):1-4
Dec 1967 10 G79LA
Brevicoryne brassicae, Cauliflower, Chemical control (insects), Cultural control (plant diseases), Insect vectors, Malathion, Mosaic, Myzus persicae, Organophosphorus compounds, Plant disease control, Plant disease transmission, Symptomatology, Virus diseases (plants).

The virus disease, cauliflower mosaic, its symptoms, transmission by aphids, and control are discussed. No cure for the disease is known, only preventive measures such as destruction of crop residues, control of aphid vectors and selective cropping effectively control the disease.

2764-69
RED CLOVER NECROTIC MOSAIC VIRUS, A NEW VIRUS INFECTING RED CLOVER (TRIFOLIUM PRATENSE) IN CZECHOSLOVAKIA.
M Musil
Biologia (brotislova) 24(1):33-43
24 Jan 1969 442.8 B5265
Morphology, Mosaic, Red clover, Virus diseases (plants).

2765-69
COURSE OF RED CLOVER MOTTLE VIRUS INFECTION IN SOME HOST PLANTS.
M Musil O Leskova
Biologia (bratislova) 24(1):23-31
Jan 1969 442.8 B5265
Host indexing (plants), Mottle, Red clover, Virus diseases (plants).

2766-69
CONTROL OF BRANCH WILT DISEASE OF GRAPES.
R M Natour J M Ahmed
Plant Dis Rep 53(2):152-153
Feb 1969 1.9 P69P
Chemical control (plant diseases), Epidemiology, Fungicides, Fungus diseases (plants), Grapes, Hendersonula toruloidea, Mercury compounds, Pruning, Wilt.

2767-69
BARLEY YELLOW DWARF VIRUS.
Agr Gaz New S Wales 79(4):BACK COVER
Apr 1968 23 N472
Aphididae, Barley, Disease transmission, Insect vectors, Oats, Symptomatology, Virus diseases (plants), Yellow dwarf.

2768-69
HALO BLIGHT OF BEAN (PSEUDOMONAS PHASEOLICOLA).
Agr Gaz New S Wales 79(11):BACK COVER
Nov 1968 23 N472
Beans, Cultural control (plant diseases), Halo blight, Pseudomonas phaseolicola, Seed-borne plant diseases.

2769-69
LATE BLIGHT OF POTATO.
Agr Gaz New S Wales 79(2):BACK COVER
Feb 1968 23 N472
Chemical control (plant diseases), Cultural control (plant diseases), Fungus diseases (plants), Late blight, Phytophthora infestans, Plant disease control, Plant disease transmission, Potatoes.

2770-69
DOWNY MILDEW OF CEREALS AND GRASSES (PHYTOPHTHORA MACROSPORA).
Agr Gaz New S Wales 79(5):BACK COVER
May 1968 23 N472
Cultural control (plant diseases), Fungus diseases (plants), Grain, Grasses, Phytophthora macrospora.

2771-69
ANTIBIOTIC SUBSTANCES IN THE POTATO FORMED DURING THE NECROTIC REACTION.
O L Ozeretskovskaya N I Vasyukova L V Metlitskii
Acod Sci U Ssr Dokl Bot Sci 178(JAN-FEB):6-8
1968 511 P444AE
Antibiotics, Fusarium solani, Necrosis, Phytophthora infestans, Plant disease resistance, Plant diseases, Potatoes. Translated from Russian.

2772-69
SPRAY WARNINGS FOR THE CONTROL OF SEASONAL DISEASE OUTBREAKS IN FIELD CROPS UNDER SEMI-ARID CONDITIONS.
J Palti J Rotem
Plant Protect Abs 4:187-188
Sep 1968 241.75 P69
Arid regions, Environment, Epidemiology, Field crops, Plant diseases, Spraying. First International Congress of Plant Pathology, London 14-26 July, 1968.

2773-69
ABOUT POTATO VIRUS DIAGNOSED IN YUGOSLAVIA. (SE)
M Panjan
Zostito Biljo 18(93/95):25-35 REF
1967 464.8 Z1
Crop losses, Diagnosis, Potatoes, Virus diseases (plants). English summary.

Viruses diagnosed were: Y-virus, A-virus, potato leafroll virus, X, S, M-virus, aucuba virus, stolbur virus, bouguet virus, rattle virus, calico virus.

2774-69
DUTCH ELM DISEASE IN IDAHO-1968.
A D Partridge H N Ward

Plant Dis Rep 53(2):140-141 MAP
Feb 1969 1.9 P69P
Ceratocystis ulmi, Dieback, Fungus diseases (plants), Ulmus pumila.

2775-69
THE USE OF DISEASE RESISTANCE IN THE GLASSHOUSE TOMATO.
J Pelham J W M Smith H C Harries
Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81,AUTUMN):19-27 REF
1968 241 G796
Brown root rot, Cladosporium, Fusarium, Plant breeding, Plant disease resistance, Tomatoes, Verticillium.

Breeding for resistant varieties of tomatoes is discussed with reference to the diseases of Verticillium, Fusarium, brown root rot, Cladosporium and mosaic viruses.

2776-69
APPLICATION OF ARK'S METHOD MODIFIED IN ISOLATION OF AGROBACTERIUM RHIZOGENES IN ASSOCIATION WITH AGROBACTERIUM TUMEFACIENS IN GALLS FROM ROSA SP. AND INFECTED SOILS. (POR
A L G Percira A G Zagatto
Sao Paulo Inst Biol Arq 35(4,OCT-DEC):133-139
Dec 1968 442.9 SA6
Agrobacterium rhizogenes, Agrobacterium tumefaciens, Bacterial diseases (plants), Methodology, Plant galls, Rosa, Soil bacteria. English abstract

2777-69
STATUS OF AMERICAN STEM RUSTS OF PINE.
R S Peterson F F Jewell
Annu Rev Phytopathol 6:23-40 REF
1968 464.8 AN72
Epidemiology, Fungus diseases (plants), Pinus, Plant disease control, Plant injuries, Stem rust.

2778-69
EFFECT ON YOUNG SUGAR BEET (BETA VULGARIS L.) PLANTS OF HETERODERA SCHACHTII SCHMIDT 1871, ALONE, AND IN COMBINATION WITH RHIZOCTONIA SOLANI KUHN 1858.
A G Polychronopoulos
Diss Abstr Sect B 29(3):838B
Sep 1968 Z5055.U49D53
Fungus diseases (plants), Greenhouse culture, Heterodera schachtii, Plant injuries, Plant nematodes, Rhizoctonia solani, Seedlings, Sugar beets.

2779-69
CONTRIBUTION TO THE KNOWLEDGE OF DOMINANT BIOTYPES OF THE PHYTOPHTHORA INFESTANS ON THE POTATO. (SE)
Z Prpic
Zastita Bilja 18(93/95):101-114 REF
1967 464.8 Z1
Biotypes, Fungus diseases (plants), Leaves, Nodules (plants), Phytophthora infestans, Plant disease resistance, Plant genetics, Potatoes, Testing, Tomatoes. English summary.

2780-69
THE ACCUMULATION OF PHENOLIC ACIDS IN TISSUE CULTURE PATHOGEN COMBINATIONS OF SOLANUM TUBEROSUM AND PHYTOPHTHORA INFESTANS.
N F Robertson J Friend M Aveyard J Brown M Huffee Et Al
J Gen Microbiol 54(2):261-268 REF
Dec 1968 448.3 J823
Chromatography, Phenols, Phytophthora infestans, Plant disease resistance, Potatoes, Tissue culture, Toxicity.

2781-69
RESEARCH RESULTS CONCERNING MEANS OF AGRO-CHEMICAL CONTROL OF AGROBACTERIUM TUMEFACIENS. (IT)
D Rui N Rizzotto S Bonfante
Giornate Fitopatol 255-269
26 Mar 1967 SB599.G5
Agrobacterium tumefaciens, Chemical control (plant diseases), Cultural control (plant diseases), Soil fumigation, Tables (data).

2782-69
ELECTRON MICROSCOPE STUDY OF THE FIRST STAGES OF ALTERATIONS OF THE CHLOROPLASTS IN NICOTIANA XANTHI N. C. IN ITS HYPERSENSITIVE REACTION TO THE TOBACCO MOSAIC VIRUS. (FR
R Scalla R Meignoz C Noirot-Timothee C Martin
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):527-530 REF
20 Jan 1969 505 P21
Chloroplasts, Electron microscopy, Nicotiana, Plant cytology, Plant physiology, Tobacco mosaic virus, Virus diseases (plants).

2783-69
FURTHER EVIDENCE SUPPORTING THE HYPOTHESIS THAT TWO GENETIC SYSTEMS CONTROL DISEASE REACTION TO MAIZE DWARF MOSAIC VIRUS STRAIN A AND STRAIN B.
G L Scheifele C C Wernham
Plant Dis Rep 53(2):150-151
Feb 1969 1.9 P69P
Biological control (plant diseases), Breeding, Corn, Dwarf disease, Dwarf mosaic, Greenhouse culture, Mosaic, Plant disease resistance, Plant genetics, Virus diseases (plants).

2784-69
APPEARANCE OF WEEDS AND DISEASE IN GRAIN AND CORN AFTER DIRECT DRILLING. (GE)
F Schwerdtle W Koch
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):214-217
Feb 1967 410.9 G31M
Corn, Cultural control (plant diseases), Cultural control (weeds), Grain, Methodology, Plant diseases, Seed planting, Weed control, Wheat. English abstract

2785-69
TOBACCO MOSAIC VIRUS INHIBITION BY BARK EXTRACTS.
R Singh
Experientia 25(2):218
15 Feb 1969 475 EX7
Bark, Biological assay, Inhibitors, Plant extracts, Tobacco mosaic virus, Virus diseases (plants).

2786-69
STRUCTURAL FEATURES OF THE DEVELOPMENT OF THE POLYSTICHOUSTUBERCULATE FORM OF THE BLISTER SMUT (CAUSATIVE AGENT USTILAGO MAYDIS (0DC). CDA.) ON MAIZE LEAVES. (RUS)
E J Slepian I V Karatygin
Bot Zhur (moscow) 53(11):1617-1621
Nov 1968 451 R923
Corn, Fungus diseases (plants), Fungus germination, Fungus physiology, Smut, Ustilago maydis. English abstract

2787-69
CALLUSOMORPHIC STAGE IN DEVELOPMENT OF GALLS CAUSED BY USTILAGO MAYDIS (DC) CDA. ON CORN LEAVES.
E I Slepyan
Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):61-63
1968 511 P444AE
Callus (plants), Corn, Fungus diseases (plants), Leaves, Morphology, Plant galls, Ustilago maydis. Translated from Russian.

2788-69
REACTION OF BARLEY VARIETIES TO HELMINTHOSPORIUM TERES SACC. AND HELMINTHOSPORIUM SATIVUM PAM. KING AND BAKKE. (SE
H Smiljakovic B Kostic
Zastita Bilja 18(93/95):125-131
1967 464.8 Z1
Barley, Crop varieties, Crop yields, Fungus diseases (plants), Helminthosporium sativum, Helminthosporium teres, Plant breeding, Plant disease resistance. English summary.

2789-69
OCCURENCE OF A NEW PHYSIOLOGIC RACE OF COFFEE RUST (HEMILEIA VASTATRIX).
M S Sreenivasan C C Chinnappa
Indian Coffee Monthly Bull 32(3):94
Mar 1968 68.29 IN23M
Biological control (plant diseases), Coffee, Crop varieties, Fungus diseases (plants), Hemileia vastatrix, Leaf rust, Parasitism, Plant disease resistance.

2790-69
AN INVESTIGATION OF CERTAIN FACTORS IN THE HOST-PATHOGEN RELATIONSHIP OF CERCOSPORA ARACHIDICOLA ON THE PEANUT PLANT ARACHIS HYPOGAEA VAR. ARGENTINE.
R V Sturgeon
Diss Abstr Sect B 29(3):839B
Sep 1968 Z5055.U49D53
Cercospora arachidicola, Chemical control (plant diseases), Fungus diseases (plants), Leaf spot, Maneb, Peanuts, Temperature.

2791-69
INFECTION, RECOVERY FROM INFECTION AND RESISTANCE OF APRICOT TREES TO VERTICILLIUM ALBO-ATRUM.
J B Taylor N T Flentje
New Zeal J Bot 6(4):417-426 REF
Dec 1968 450 N48
Apricots, Fungus diseases (plants), Fungus pathogenicity, Plant disease control, Plant disease resistance, Verticillium albo-atrum.

2792-69
PURIFICATION AND PROPERTIES OF BROAD BEAN WILT VIRUS.
R H Taylor P R Smith C Reinganum A J Gibbs
Australian J Biol Sci 21(5):929-935
Oct 1968 442.8 AU72
Broadbeans, Centrifugation, Electron microscopy, Serological tests, Virus diseases (plants), Wilt.

Broad bean wilt virus was purified and its physiological and serological properties described.

2793-69
THE SPECIAL FORMS IN THE CLASSIFICATION OF PHYTOPATHOGENIC BACTERIA. (SE)
Z P Tesic
Zastita Bilja 18(93/95):45-53 REF
1967 464.8 Z1
Bacteria, Bacterial diseases (plants), Microbiology, Nomenclature, Saprophytes, Taxonomy. English summary.

2794-69
AN UNUSUAL STRAIN OF TOBACCO MOSAIC VIRUS FROM ORCHIDS.
A D Thomson B A Smirk
New Zeal J Bot 5(2):197-202 REF
Jun 1967 450 N48
Cymbidium, Disease transmission, Orchidaceae, Serological tests, Tobacco mosaic virus, Virus diseases (plants).

A strain of TMV isolated from Cymbidium orchids exhibited differences from the common TMV strain in that it induced small lesions on N. glutinosa it did not infect N. tabacum and it was serologically distinguishable by means of the cross absorption test.

2795-69
A STUDY OF THE MAIZE MOSAIC VIRUS OCCURRENCE AND ITS EFFECT ON THE GROWTH AND YIELD OF SOME CORN VARIETIES AND HYBRIDS. (SE
M Tosic M Misovic
Zastita Bilja 18(93/95):173-181 REF
1967 464.8 Z1

Corn, Crop varieties, Crop yields, Mosaic, Plant breeding, Plant physiology, Virus diseases (plants). English summary.

2796-69
PERMEABILITY PHENOMENA IN PLANT DISEASE.
H Wheeler P Hanchey
Annu Rev Phytopathol 6:331-350 REF
1968 464.8 AN72
Calcium, Cell wall, Permeability, Plant disease resistance, Plant diseases, Plasma membrane, Plasmolysis.

2797-69
THE ULTRASTRUCTURE OF THE STROMA OF THE BROWN ROT FUNGI.
H J Willetts F D Calonge
Arch Mikrobiol 64(4):279-288
30 Jan 1969 442.8 AR26
Brown rot, Electron microscopy, Fungus diseases (plants), Morphology, Verticillium albo-atrum.

ARTHROPODS

2798-69
ROLE OF APHIDS IN THE ECOLOGY OF PLANT VIRUSES. SWENSON, K G.
Annu Rev Phytopathol 6:351-374 REF
1968 464.8 AN72
Aphididae, Ecology, Epidemiology, Insect populations, Insect vectors, Plant disease transmission, Virus diseases (plants).

2799-69
THE USE OF STERILE MALES TO CONTROL POPULATIONS OF QUEENSLAND FRUIT FLY, DACUS TRYONI (FROGG.) (DIPTERA: TEPHRITIDAE). II. FIELD EXPERIMENTS IN NEW SOUTH WALES.
H G Andrewartha J Monro N L Richardson
Australian J Zool 15(3):475-499 MAP
May 1967 410 AU73
Biological control (insects), Daeus tryoni, Field test, Sterile males.

2800-69
SIMPLIFICATIONS IN THE CONTROL OF THE PHYTOPHAGA OF OLIVES. (IT
E Antongiovanni
Giornate Fitopatol 373-381
26 Mar 1967 SB599.G5
Chemical control (insects), Daeus oleae, Dimethoate, Liothrips oleae, Olives, Phenthoate, Prays oleelus.

2801-69
PSYLLA PRUNI SCOP.-THE PLUM PSYLLA. (SE)
M Bogavac
Zastita Bilja 18(93/95):169-171
1967 464.8 Z1
Insect eggs, Insect pests, Larvae, Plums, Prunus spinosa, Psylla, Temperature. German summary.

2802-69
SOME PROBLEMS REGARDING THE DEFENSE OF THE APPLE AGAINST THE INFESTATIONS BY SOME APHID SPECIES. (IT)
P L Castellari P Giunchi M M Prineipi
Giornate Fitopatol 309-320
26 Mar 1967 SB599.G5
Aphididae, Aphis pomi, Apples, Biological control (insects), Dysaphis plantaginea, Eriosoma lanigerum, Parasitism, Predaceous insects.

2803-69
INFLUENCE OF FEEDING, OVIPOSITION, AND EGG AND LARVAL DEVELOPMENT OF THE BOLL WEEVIL ON ABSCISSION OF COTTON SQUARES.
J M Coakley F G Maxwell J N Jenkins
J Econ Entomol 62(1):244-245
17 Feb 1969 421 J822
Abscission, Anthonomus grandis, Cotton, Feeding, Insect eggs, Insect morphology, Larvae, Oviposition, Plant physiology.

2804-69
THE SPINED CITRUS BUG--BIPRORULUS BIBAX BREDD. (HEMIPTERA: PENTATOMIDAE).
J G Gellatley
Agr Gaz New S Wales 79(1):31-33 MAP
Jan 1968 23 N472
Carbaryl, Chemical control (insects), Citrus, Diazinon, Dimethoate, Fenthion, Insect geography, Insect morphology, Life cycle, Malathion, Mevinphos, Pentatomidae.

The spined citrus bug (Biprorhus bibax) is described as a citrus pest and several insecticides are recommended for its control.

2805-69
EPIMEGASTIGMUS BREVIVALVUS GIR. (HYMENOPTERA: TORYMIDAE), A PARASITE OF CITRUS GALL WASP IN THE SYDNEY DISTRICT.
F A Gibson J G Gellatley
Agr Gaz New S Wales 79(5):312-314 MAP
May 1968 23 N472
Biological control, Bruchophagus, Citrus, Epimegastigmus brevivalvus, Parasitic insects.

Epimegastigmus brevivalvus, a parasite of the citrus gall wasp, Bruchophagus fellis was released in Australia as a biological control agent. The intesity of parasitimsm and effectiveness of the project are discussed.

2806-69
RESOLUTE RESEARCH TO DEFEAT GRASS-GRUB.
B B Given
New Zeal J Agr 116(4):82-83
Apr 1968 23 N48J
Costelytra zealandica, Grasses, Insect adaptation, Integrated control (insects), Methodology, Odontria variceolorata, Pasture management, Pinus.

In the process of developing the best kind of pasture for livestock, the ideal environment for the grass grub was also created and Costelytra zealandica and a related species, Odontria variecolorata, have become major pests. Control researeh was slowed with the use of DDT, but extensive research into all aspects of the biology of the grassgrub and possible control measures is now being carried out.

2807-69
INSECTS OF THE SEASON 1967 RELATED TO FRUIT, VEGETABLES AND ORNAMENTALS.
H W Goble
Entomol Soc Ontario Proc 98:5-6
1967 420 ON8
Crops, Fruit, Insect pests, Ornamental plants, Plant injuries, Surveys, Time, Vegetables. Many insect pests are mentioned.

2808-69
A VIRUS-LIKE STRUCTURE IN THE DESERT LOCUST.
F Hawkes
Naturwissenschaften 55(11):547
Nov 1968 474 N213
Larvae, Schistocerca gregaria, Spermatocytes, Virus diseases (insects).

A virus-like structure was observed in the spermatocytes of the desert locust by means of the electron microscope.

2809-69
NEW HOST PLANT OF ACHERONTIA ATROPOS LINN. (LEPIDOPTERA: SPHINGIDAE).
H P van Heerden
S Afr J Agr Sci 10(3):847-848
Sep 1967 24 SU3
Acherontia, Ekebergia capensis, Host plants, Plant geography.

2810-69
PHYSIO-CHEMICAL PROBLEMS OF DEVELOPING DUSTING CHEMICALS AND SEED INCRUSTING CHEMICALS ADHERING IN NET CONDITIONS. (HU
K Jeney
Kiserletugyi Kozlemenyek 58/C(3):79-85
1967 105.9 H89
Dusting, Flaxseed, Insecticide application, Methodology, Paraffins, Seed treatment, Wheat. English and Russian abstracts

2811-69
INSECT SECRETIONS IN PLANTS.
P W Miles
Annu Rev Phytopathol 6:137-164 REF
1968 464.8 AN72
Feeding, Gall-making insects, Glands (insects), Ovulation, Plant disease resistance, Plant disease transmission, Plant physiology, Salivary glands (insects), Secretion, Tissues, Virus diseases (plants).

2812-69
INSECT TRANSMISSION AND PATHOGENICITY STUDIES OF CERATOCYSTIS FIMBRIATA IN STONE FRUITS.
W J Moller
Diss Abstr Sect B 29(3):837B-839B
Sep 1968 Z5055.U49D53
Ceratocystis fimbriata, Fungus diseases (plants), Insect vectors, Plant disease transmission, Prunus, Research.

2813-69
THE USE OF STERILE MALES TO CONTROL POPULATIONS OF QUEENSLAND FRUIT-FLY, DACUS TRYONI (FROGG.) (DIPTERA: TEPHRITIDAE). I. METHODS OF MASS-REARING, TRANSPORTING, IRRADIATING, AND RELEASING STERILE FLIES.
J Monro A W Osoorn
Australian J Zool 15(3):461-473 REF
May 1967 410 AU73
Biological control (insects), Dacus tryoni, Insect rearing, Irradiation, Methodology, Sterile males.

2814-69
NOTE ON THE CONTROL OF GALL-FLY (ASPHONDYLIA SESAMI FELT.) ON SESAME.
S V Muhammad N R Chandrasekharan N Srinivasalu
Indian J Agr Sci 38(4):666-667
Aug 1968 22 AG831
Asphondylia sesami, Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, DDT, Endrin, Gall-making insects, Organophosphorus compounds, Parathion, Sesame.

Of the insecticides tested, BHC dust at ten per cent proved most effective in controlling the gall fly, Asphondylia sesami, on sesame plants.

2815-69
A PARASITE TO DESTROY CLOVER PEST.
New Zeal J Agr 118(1):85
Jan 1969 23 N48J
Biological control, Braeonidae, Coleophoridae, Parasitic insects, White clover.

Coleophora spissicornis and C. alcyonipennella attack the economically important white clover of New Zealand. Recently the hymenopterous parasite, Bracon variegator, has been introduced, to aid in the contol of these insect pests.

2816-69
DIFFERENTIAL TRANSMISSION OF STRAINS OF CUCUMBER MOSAIC VIRUS BY APHIDS.
R A Normand T P Pirone
Virology 36(4):538-544 REF
Dec 1968 448.8 V81
Aphididae, Cucumbers, Insect vectors, Mosaic, Myzus persicae, Plant disease transmission, Virus diseases (plants).

2817-69
RESEARCH AND CURRENT DIRECTIONS IN THE FIELD OF THE DEFENSE OF CULTIVATED PLANTS AGAINST THE ATTACKS OF ARTHROPODS. (IT

2818-69

M M Principi
Giornate Fitopatol 305-308
26 Mar 1967 SB599.G5
Biological control (insects), Chemical control (insects), Insect pests, Italy, Research.

2818-69
MATERIALS CONCERNING THE KNOWLEDGE OF LEPIDOPTERA PESTS OF ORCHARDS. (POL)
T Riedl
Pol Pismo Entomol 38(2):417-428 REF
1968 421 P76
Apples, Insect pests, Larvae, Lepidoptera, Orchards.

2819-69
IMPORTANT FOREST INSECTS OF ONTARIO IN 1967.
A H Rose
Entomol Soc Ontario Proc 98:8-10
1967 420 ON8
Forest insects, Forests, Insect pests, Time, Tree injuries, Trees.

2820-69
INSECTICIDAL TRIALS TO CONTROL MUSTARD APHID, LIPAPHIS ERYSIMI KALT., AND LARGER MOTH, CROCIDOLMIA BINOTALIS ZELL., AFFECTING MUSTARD CROP.
G Rout S C Pani
Indian J Agr Sci 38(5):828-831
Oct 1968 22 AG831
Chemical control (insects), Crocidolmia, Crop losses, Endrin, Insecticides, Lipaphis erysimi, Menazon, Mustard.

Endrin and menazon proved most sucessful in controlling Lipaphis erysimi and Crocidolmia binotalis, serious pests of mustard crops.

2821-69
EFFECTIVENESS OF STANDARD AND NEW COMPOUNDS FOR THE CONTROL OF BUD MITE, ACERIA SHELDONI EWING, ON NAVEL ORANGES.
A Schwartz F J Riekert
S Afr J Agr Sci 10(3):609-
Sep 1967 24 SU3
Aceria sheldoni, Chemical control (insects), Chlorobenzilate, Dicofol, Dimethoate, Endosulfan, Morestan, Oranges, Parathion.

2822-69
ENVIRONMENTAL BIOLOGY OF ERIOSOMA PYRICOLA BAKER AND DAVIDSON.
S L Sethi
Diss Abstr Sect B 29(3):882B-883B
Sep 1968 Z5055.U49D53
Environment, Eriosoma pyricola, Insect biology, Insect cultures, Pears, Photoperiodism, Roots, Temperature.

2823-69
ESTIMATION OF LOSS IN JUTE FIBRE YIELD DUE TO JUTE STEMWEEVIL, APION CORCHORI MARSHALL (CURCULIONIDAE: COLEOPTERA).
R L Tripathi S P Bhattacharya
Indian J Agr Sci 38(5):870-873
Oct 1968 22 AG831
Apion corchori, Chemical control (insects), Crop losses, Endrin, Jute.

2824-69
INVESTIGATIONS ON THE ENTOMOFAUNA ACCOMPANYING APHIDS OCCURRING ON FRUIT TREES AND BUSHES.
S K Wiackowski I Wiackowska
Pol Pismo Entomol 38(2):255-283
1968 421 P76
Aphididae, Fruit, Insect control, Insect identification, Insect pests, Larvae, Nomenclature, Parasites, Plant protection, Predaecous insects, Quantitative analysis. Polish summary.

2825-69
RESULTS OF INVESTIGATIONS ON THE SUSCEPTIBILITY OF DIFFERENT VARIETIES OF PISUM SATIVUM L. TO ATTACKS OF LASPEYRESIS NIGRICANA STEPH. (LEP., TORTRICIDAE). (POL)
A Wnuk
Pol Pismo Entomol 38(2):453-461 REF
1968 421 P76
Crop varieties, Insect pests, Laspeyresia nigricana, Oviposition, Peas, Pisum sativum, Plant physiology, Suseeptibility. English summary

2826-69
SOME FACTORS INFLUENCING THE POPULATION DYNAMICS OF SYNANTHEDON TIPULIFORMIS CL. (LEPIDOPTERA, AEGERIIDAE).
N L Yakimova
Entomol Rev 47(1 JAN-MAR):10-16 REF
Mar 1968 421 R322AE
Cultural control (insects), Currants, Insect pests, Plant pest control, Population, Pruning, Synanthedon tipuliformis.

NEMATODES

2827-69
GOLDEN NEMATODE. NOTICE OF PUBLIC HEARING.
R J Anderson
Fed Regist 34(40):3630
28 Feb 1969 L1.451
Heterodera rostochiensis, Plant nematodes, Potatoes, Regulations.

2828-69
PATHOGENECITY OF PRATYLENCHUS BRACHYURUS TO CITRUS.
T L Brooks
Diss Abstr Sect B 29(3):819B
Sep 1968 Z5055.U49D53
Citrus, Plant nematodes, Pratylenchus brachyurus, Radopholus similis, Seedlings, Trees.

2829-69
MELOIDOGYNE INCOGNITA ACRITA INFECTION FAILURE IN AERIAL PARTS OF COTTON.
F E Caveness
Plant Dis Rep 53(2):97-99
Feb 1969 1.9 P69P
Cotton, Meloidogyne incognita acrita, Plant nematode resistanee, Plant nematodes, Roots.

2830-69
POTATO CYST EELWORM AND THE ADVENT OF EELWORM-RESISTANT POTATOES IN SW. LANCASHIRE.
G M Dixon J M Holliday G M Jones D D Barber P A Dover et. al69A
Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81,AUTUMN):27-34 MAP REF
1968 241 G796
Heterodera rostochiensis, Plant breeding, Plant nematode resistanee, Potatoes.

2831-69
RELATIONSHIPS BETWEEN INFECTION PRESSURE AND TERMINAL INFECTION IN THE CASE OF HETERODERA ROSTOCHIENSIS WOLL.,. (GE
M Ebert
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):33-38
Feb 1967 410.9 G31M
Cysts, Heterodera rostochiensis, Plant nematode resistanee, Potatoes. English abstract

2832-69
OBSERVATIONS ON SOIL EXHAUSTION BY ROSACEAE. (GE)
H Faber
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):29-32
Feb 1967 410.9 G31M
Malus, Plant nematodes, Prunus, Rosa, Soil science, Soil sterilization, Soil-borne pests. English abstract

2833-69
CROP ROTATION EFFECTS AND NEMATODES. (GE)
M J Hijink
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):21-28
Feb 1967 410.9 G31M
Crop rotation, Nematode populations, Plant disease transmission, Plant nematodes. English abstract

2834-69
SUGAR BEET NEMATODE (HETERODERA SCHACHTII) REARED ON AXENIC BETA VULGARIS ROOT EXPLANTS. II. SELECTED ENVIRONMENTAL AND NUTRITIONAL FACTORS AFFECTING DEVELOPMENT AND SEX RATIO.
R N Johnson D R Viglierchio
Nematologica 15(1):144-152 REF
Mar 1969 436.8 N342
Beets, Heterodera schachtii, Insect morphology, Insect rearing, Suerose, Temperature, Vitamins.

2835-69
SUGAR BEET NEMATODE (HETERODERA SCHACHTII) REARED ON AXENIC BETA VULGARIS ROOT EXPLANTS. I. SELECTED ENVIRONMENTAL FACTORS AFFECTING PENETRATION.
R N Johnson D R Viglierchio
Nematologica 15(1):129-143 REF
Mar 1969 436.8 N342
Beets, Heterodera schachtii, Insect rearing, Nematode infestation, Plant nematode resistance, Suerose, Vitamins.

2836-69
DISTRIBUTION AND DAMAGING EFFECT OF THE GENUS PRATYLENCHUS IN WESTPHALIA-LIPPE. (GE)
A Kemper
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):88-92
Feb 1967 410.9 G31M-
Barley, Crop yields, Nematode infestation, Plant nematodes, Pratylenchus, Soil acidity. English abstract

2837-69
TEN YEAR OBSERVATIONS ON THE APPEARANCE OF OAT NEMATODES IN THE RHEINLAND-PFALZ. (GE)
H Kohler
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):62-65
Feb 1967 410.9 G31M
Barley, Heterodera avenae, Nematode infestation, Oats, Plant disease transmission, Plant nematodes, Wheat. English abstract

2838-69
DISCOCRICONEMELLA YOSSIFOVICHI N. SP. (NEMATODA: CRICONEMATIDAE) ON GRAPE VINE IN YUGOSLAVIA. (SE)
D Krnjaic
Zastita Bilja 18(93-95):155-160 REF
1967 464.8 Z1
Climbing plants, Criconematidae, Grapes, Plant nematodes, Taxonomy. English summary.

2839-69
INVESTIGATION INTO THE OAT NEMATODE PROBLEM. (GE)
E Lueke H Weber
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):66-70 REF
Feb 1967 410.9 G31M
Barley, Heterodera avenae, Oats, Plant breeding, Plant nematode resistanee, Wheat. English abstract

2840-69
ADDITIONS TO HOST RECORDS OF ROOT KNOT NEMATODES.

R L Mathur B N Mathur D K Handa
Nematologica 15(1):160-161
Mar 1969 436.8 N342
Host range, Meloidogyne, Plant hosts, Root knot nematode.

2841-69
CEREAL CYST NEMATODE--A NEMATODE NEW TO NEW SOUTH WALES.
R W McLeod
Agr Gaz New S Wales 79(5):293-295
May 1968 23 N472
Crop rotation, Grain, Heterodera avenae, Plant disease transmission, Plant nematodes, Zoogeography.

The grain nematode, Heterodera avenae, its development, transmission, distribution and control through crop rotation are discussed.

2842-69
OOGENESIS AND REPRODUCTION OF HETERODERA ORYZAE AND H. SACCHARI (NEMATODA: HETERODERIDAE). (FR)
C Netscher
Nematologica 15(1):10-14 REF
Mar 1969 436.8 N342
Chromosomes, Cytology, Heterodera, Meiosis, Mitosis, Nematology, Oogenesis, Reproduction. English summary.

2843-69
ECONOMICALLY IMPORTANT PLANT PARASITIC NEMATODES IN ONTARIO.
T H A Olthof J L Townshend J W Potter
Entamol Soc Ontario Proc 98:6-8
1968 420 ON8
Ditylenchus dipsaci, Economics, Heterodera, Meloidogyne, Parasitism, Plant injuries, Plant nematodes, Pratylenchus.

2844-69
REDUCTION OF ROOT KNOT OF TOMATOES IN DEXTROSE-AND AMMONIUM NITRATE-AMENDED SOIL INFESTED WITH THE NEMATOPHAGOUS FUNGUS ARTHROBOTRYS OLIGOSPORA.
Th H A Olthof R H Estey
Nematologica 15(1):157-159
Mar 1969 436.8 N342
Ammonium nitrate, Arthrobotrys, Biological control, Glucose, Meloidogyne, Nematode controlling fungi, Root knot, Tomatoes.

2845-69
RESULTS OF THE CONTROL OF TYLENCHULUS SEMIPENETRANS COBB., A PARASITIC NEMATODE OF CITRUS, BY MEANS OF 1,2-DIBROMO-3-CHLOROPROPANE. (IT)
G Perrotta M Salerno
Giornate Fitopatol 449-453
26 Mar 1967 SB599.G5
Chemical control (nematodes), Citrus, Dibromo-3-chloropropane, 1,2-, Plant nematodes, Tylenchulus semipenetrans.

2846-69
WILD AND CULTIVATED GRASS HOSTS OF THE SOUTHERN ROOT-KNOT NEMATODE, MELOIDOGYNE INCOGNITA.
J W Potter J L Townshend T R Davidson
Nematologica 15(1):29-34 REF
Mar 1969 436.8 N342
Grasses, Host range, Meloidogyne incognita, Plant hosts, Reproduction.

2847-69
THE CONDITION OF CYSTS OF POTATO NEMATODES IN PURIFICATION PLANTS. (GE)
F Sprau
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):39-44
Feb 1967 410.9 G31M
Heterodera rostochiensis, Plant disease transmission, Potatoes, Water pollution, Water treatment. English abstract

2848-69
INVESTIGATION INTO THE VERTICAL MIGRATION OF MELOIDOGYNE HAPLA. (GE)
W Stein
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):93-96
Feb 1967 410.9 G31M
Demography, Meloidogyne hapla, Nematode migration, Plant nematodes, Sandy soils. English abstract

2849-69
APPEARANCE AND DAMAGING EFFECT OF HETERODERA SCHACHTII IN SUGAR BEET FARMS IN THE RHEIN. (GE)
W Steudel
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):45-49
Feb 1967 410.9 G31M
Chemical control (nematodes), Crop rotation, Heterodera schachtii, Nematocides, Sugar beets. English abstract

2850-69
COSTS AND RESULTS OF THE CONTROL OF THE GOLDEN NEMATODE OF THE POTATO. (IT)
R Verneau
Giornate Fitopatol 437-441
26 Mar 1967 SB599.G5
Chemical control (nematodes), Costs, Crop varieties, Dichloropropane dichloropropene mixture, Heterodera rostochiensis, Methyl bromide, Plant nematodes, Potatoes.

2851-69
THE DYNAMICS OF NEMATODE MOVEMENT.
H R Wallace
Annu Rev Phytopathol 6:91-114 REF
1968 464.8 AN72
Animal ecology, Animal protective devices, Locomotion, Plant nematodes, Soil analysis, Water.

2852-69
DEVELOPMENTAL TENDENCIES IN PHYTONEMATOLOGY. (GE)
B Weischer
Berlin Bial Bundesanst Land-forstwirtsch Mitt (121):12-20 REF
Feb 1967 410.9 G31M
Crop rotation, Host relationships, Nematode control, Plant disease transmission, Plant nematodes, Research. English abstract

WEEDS

2853-69
WHEN ALGAE ARE A NUISANCE.
Nature 220(5168):648
16 Nov 1968 472 N21
Algae, Aquatic plants, Biological control (pests), Gases, Light, Pest control.

2854-69
HERBICIDE SCREENING TRIALS ON VEGETABLE CROPS.
M Aravindakshan
Agr Res J Kerala 5(1/2,MAR-SEP):31-39
1967 22 AG823
Chemical control (weeds), Herbicides, Plant injuries, Vegetables. 16 herbicides were tested.

2855-69
SEVERAL YEAR OLD TESTS ON CHEMICAL CONTROL OF WILD SORGUM (ECHINOCLOA CRUS GALLI) IN CORN. (GE)
G Bachthaler F G Hoyos
Berlin Bial Bundesanst Land-forstwirtsch Mitt (121):234-240
Feb 1967 410.9 G31M
Atrazine, Chemical control (weeds), Chlorophenyl)-1-methoxy-1-methyl-urea, 3-(p-, Corn, Echinochloa crus-galli, Prometryne. English abstract

2856-69
SOME CONSIDERATIONS ON CHEMICAL WEED CONTROL IN ITALIAN BEET FIELDS AND A SURVEY OF SOME EXPERIMENTAL DATA COLLECTED IN 1966. (IT)
G C Bongiovanni
Giornate Fitopatol 511-521 REF
26 Mar 1967 SB599.G5
Chemical control (weeds), Herbicide application, Lenacil, Methodology, Pyrazon, Sugar beets, Tables (data). Other less effective herbicides were also tested.

2857-69
EFFECT OF REPEATED ANNUAL USE OF ATRAZINE ON CORN.
O C Burnside G A Wicks C R Fenster
Agron J 61(2,MAR-APR):297-299
Apr 1969 4 AM34P
Atrazine, Chemical control (weeds), Corn, Crop losses, Herbicide residues, Plant physiology, Weed control.

2858-69
WEED CONTROL TESTS IN ONION FIELDS. (IT)
B Casarini G Silvestri
Giornate Fitopatol 499-506
26 Mar 1967 SB599.G5
Chemical control (weeds), Chlorinated hydrocarbons, Dacthal, Onions, Tables (data), Weeds. Other less effective herbicides were tested.

2859-69
PERENNIAL WEED GRASSES AND THEIR CONTROL IN RELATION TO CEREAL GROWING.
G W Cussans
Great Brit NAAS (nat Agr Adv Serv) Quart Rev (81,AUTUMN):7-12
1968 241 G796
Agropyron repens, Amitrole, Chemical control (weeds), Dalapon, Defoliation, Drying, Grain, Paraquat, Plowing, Seasonal variation, TCA, Weed control.

Physical and chemical control methods for couch grass (Agropyron repens) in grain fields are discussed.

2860-69
EFFECT OF HERBICIDES ON GROWING WHEAT APPLIED SIMULTANEOUSLY WITH CALCIUM CYANAMIDE FERTILIZERS. (GE)
R Diercks
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):226-233
Feb 1967 410.9 G31M
Alopecurus myosuroides, Calcium cyanamide, Cercosporella herpotrichoides, Chemical control (weeds), Dicotyledons, Fertilizers, Herbicides, Plant physiology, Simazine, Wheat. English abstract

2861-69
WEED CONTROL IN SEPARATE CULTURES BY BURNING OFF. (GE)
H Faber
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):281-284
Feb 1967 410.9 G31M
Equipment, Herbicides, Methodology, Weed burners, Weed control. English abstract

2862-69
WEED CONTROL AND PLANT RESIDUE MAINTENANCE WITH VARIOUS TILLAGE TREATMENTS IN A WINTER WHEAT-FALLOW ROTATION.
C R Fenster C E Domingo O C Burnside
Agron J 61(2,MAR-APR):256-259 REF
Apr 1969 4 AM34P
Bromus tectorum, Mulches, Plowing, Triticum aestivum, Weed control.

2863-69
INFLUENCE OF VARIOUS SOIL PROPERTIES AND MOISTURE ON THE ACTION OF UREA DERIVITIVES ON GRASSY WEED CONTROL IN WINTER GRAINS. (GE)
M Hanf J Jung
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):186-194
Feb 1967 410.9 G31M
Barley, Buturon, Chemical control (weeds), Cycluron, Soil moisture, Soil properties, Urea derivatives, Wheat. English abstract

2864-69
HERBICIDES IN PLANT PROTECTION. (GE)
K Hofmann
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):277-280
Feb 1967 410.9 G31M
Agropyron repens, Convolvulus, Domatol special, Herbicides, Plant protection, Weed control, Windbreaks. English abstract.

2865-69
CHLORTHIAMID AGAINST BIND WEED IN BASKET WILLOW CULTURES. (GE
W Kampe
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):259-262
Feb 1967 410.9 G31M
Chemical control (weeds), Chlorthiamid, Convolvulus, Herbicides, Salix viminalis, Weed control. English abstract

2866-69
UPTAKE AND TRANSLOCATION OF SUBSTITUTED ANILINE HERBICIDES IN PEANUT SEEDLINGS.
M L Ketchersid T E Boswell M G Merkle
Agron J 61(2,MAR-APR):185-187
Apr 1969 4 AM34P
Chromatography, Herbicides, Peanuts, Plant physiology, Plant translocation, Seedlings, Trifluralin.

2867-69
AUTUMN WEED CONTROL FOR CONTINUOUS CEREAL GROWERS.
G H MacKenzie
Scot Agr 47(4,AUTUMN):192-193
1968 10 SCO82SO
Agropyron repens, Chemical control (weeds), Fertilizers, Grain, Juncus, Plowing, Weed control.

2868-69
WHEAT CONTROL IN WHEAT.
A D Mears
Agr Gaz New S Wales 79(2):66-71
Feb 1968 23 N472
Barban, Chemical control (weeds), Crop yields, Cultural control (weeds), D, 2,4-, Herbicides, Integrated control (weeds), Methodology, Tri-allate, Wheat.

Wheat crops are damaged considerably by weeds and the author presents cultural and chemical methods of weed control.

2869-69
CHEMICAL WEED CONTROL IN FINLAND IN 1887--1965.
J Mukula E Ruuttunen
Ann Agr Fenn 8(SUPPL 1):1-45 MAP REF
1969 20 AN7
Catalogs, Chemical control (weeds), Herbicide application, Herbicide residues, Herbicides, History, Weed control.

2870-69
THE SIGNIFICANCE OF THE GRANULATION OF DICHLOBENIL FOR WEED CONTROL IN SEVERAL YEAR OLD CULTURES. (GE)
H H Nolle
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):251-258
Feb 1967 410.9 G31M
Agricultural economics, Chemical control (weeds), Chlorthiamid, Dichlohenil, Granular herbicides, Weed control. English abstract

2871-69
PROGRESS AND GOALS OF CHEMICAL WEED CONTROL. (GE)
H Orth
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):168-176 REF
Feb 1967 410.9 G31M
Carrots, Chemical control (weeds), Corn, Grain, Herbicide application, Plant mutation, Sugar beets, TBA, Weed control. English abstract

2872-69
TESTS OF CHEMICAL WEED CONTROL IN ONION FIELDS. (IT)
G Rapparini G Marocchi
Giornate Fitopatol 507-510
26 Mar 1967 SB599.G5
Chemical control (weeds), Chlorinated hydrocarbons, C1PC, Dacthal, Onions, Weeds. Other less effective herbicides were tested.

2873-69
CHEMICAL WEED CONTROL EXPERIMENTS DPA IN RICE. (HU)
Z Sajo
Kiserletugyi Kozlemenyek 58/A(1):27-45 REF
1966 105.9 H89
Chemical control (weeds), Cyperaceae, DPA, Rice, Weed control. English and Russian abstracts

2874-69
WEED CONTROL WITH GROWTH REGULATING SUBSTANCES IN MICRO GRANULE HERBICIDES. (GE)
K H Walther
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):248-250
Feb 1967 410.9 G31M
Agricultural economics, Chemical control (weeds), Grain, Granular herbicides, Plant growth regulator, Weed control. English abstract

2875-69
CONTROL OF DICOLYLEDON WEED SEEDS AND MILLET WEED IN BEANS WITH SOIL HERBICIDES. (GE)
B Wurzer
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):241-247
Feb 1967 410.9 G31M
Beans, Chemical control (weeds), Chlorophenyl)-1-methoxy-1-methyl-urea, 3-(p-, Dicotyledons, Herbicides, Millet, Seeds, Weed control. English abstract

LIVESTOCK PROTECTION

2876-69
ASCARIASIS IN PIG AND IN MAN.
J M Barry F J O'frourke
Ray Dublin Soc Sci Proc Ser A 3(4):39-55 REF
1967 501 D85
Animal morphology, Ascariasis, Ascaris lumbricoides, Ascaris lumbricoides suum, Epidemiology, Humans, Parasites, Serological tests, Swine, Zoonoses.

2877-69
EPIDEMIOLOGICAL TRENDS IN DISEASE OF LIVESTOCK KEPT UNDER INTENSIVE CONDITIONS.
P G Box
Vet Rec 83(24):613
14 Dec 1968 41.8 V641
Coccidiosis, Environment, Epidemiology, Livestock diseases, Parasitism, Poultry, Respiratory diseases, Virus diseases (animals). Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2878-69
SHEEP DISEASE PROBLEMS ASSOCIATED WITH HIGH DENSITY STOCKING.
G E Charles
Agr Gaz New S Wales 79(5):271-273
May 1968 23 N472
Anoplura, Bacterial diseases (animals), Coccidiosis, Haemonchus contortus, Hypocalcemia, Livestock diseases, Mites, Pest control, Phalaris tuberosa, Pregnancy disease, Sheep, Trichostrongylus.

The etiology and control of communicable diseases and parasites of sheep are discussed.

2879-69
KOAGAMIN VETERINARY PARENTERAL HEMOSTAT. DRUGS FOR VETERINARY USE - DRUG EFFICACY STUDY IMPLEMENTATION.
H L Jr. Ley
Fed Regist 34(22):1611
01 Feb 1969 L1.451
Drugs, Malonic acid, Oxalic acid, Phenol compounds, Veterinary medicine.

2880-69
MAMMARY DEVELOPMENT IN HYPOPHYSECTOMIZED CASTRATED RABBITS INJECTED WITH, THYROXINE, CORTISONE, AND OVARIAN HORMONES.
A Norgren
Lund Univ Acta Univ Lundensis Sect I I Med Math Sci Ker Nat (33):19P REF
1967 502 L97A
Castration, Cortisone, Growth factors, Hormones, Laboratory animals, Mammary glands, Ovaries, Pituitary gland, Progesterone, Rabbits, Tables (data), Thyroxine.

2881-69
THE EFFECTS OF BALANCING AND IMBALANCING SAFFLOWER PROTEIN ON FOOD CONSUMPTION, BODY WEIGHT GAIN AND CONCENTRATIONS OF PLASMA FREE AMINO ACIDS IN THE YOUNG RAT.
C F Wells
Diss Abstr Sect B 29(3):825B
Sep 1968 Z5055.U49D53
Amino acids, Animal physiology, Blood plasma, Diet, Feeding, Proteins, Rats, Safflower.

DISEASES

2882-69
MORTALITY AMONG CHINOOK SALMON ASSOCIATED WITH THE FUNGUS DERMOCYSTIDIUM.
R L Allen T K Meekin G B Pauley M P Fujihara
Can Fish Res Board J 25(11):2467-2475
Nov 1968 442.9 C16J
Chemical control (animal diseases), Dermocystidium, Diquat, Fungus diseases (animals), Salmon.

2883-69
NOTE ON OCCURRENCE OF THE ISOSPORA BIGEMINA (STILES, 1891) LUHE, 1906 IN CANIS FAMILIARIS IN SAO PAULO AND GEOGRAPHIC DISTRIBUTION OF THE ISOSPORA SPECIES IN DOGS AND CATS, IN BRAZIL. (POR)
V do Amaral E H Birgel
Sao Paulo Inst Biol Arq 35(2,APR-JUN):77-81 REF
Jun 1968 442.9 SA6
Cats, Coccidiosis, Dogs, Isospora, Isospora higemina, Zoogeography. English abstract

2884-69
THE PATHOGENESIS OF STREET RABIES VIRUS IN RATS.
G M Baer T R Shantha G H Bourne
World Health Organ Bull 38(1):119-125 REF
1968 449.9 W892B
Antibodies, Central nervous system, Mortality, Rabies, Rats, Virus diseases (animals). French summary.

2885-69
STUDIES ON WILD RESERVOIRS AND VECTORS OF TRYPANOSOMA CRUZI. XXVIII. ON THE PRESENCE OF TRIATOMA SORDIDA STAL., 1859 AND RHODNIUS NEGLECTUS LENT, 1954 IN NESTS OF FURNARIID BIRDS (HEMIPTERA, REDUVIIDAE). (POR)

M P Barretto J da R Carvalheiro
Rev Brasil Biol 28(3):289-293 REF
Sep 1968 442.8 R326
Bird nests, Birds, Habitats, Host relationships, Insect vectors, Rhodnius, Triatoma, Trypanosoma cruzi. English summary.

2886-69
IN VITRO ANTIMICROBIAL ACTIVITY OF DIMETHYLSULFOXIDE.
H Basch H H Gadebusch
Appl Microbiol 16(12):1953-1954
Dec 1968 448.3 AP5
Animal diseases, Antibiotics, Bacteria, Culture media, Dimethylsulfoxide, Drugs, Fungus diseases (animals), Solubility.

2887-69
PORCINE ENTERITIS DUE TO CLOSTRIDIUM PERFRINGENS TYPE C. I. EPIZOOTIOLOGY AND DIAGNOSIS.
M E Bergeland T A Dermody D K Sorensen
U S Livestock Sanit Ass Proc 70:601-606 MAP
10 Oct 1966 49.9 UN3R
Clostridium perfringens, Diagnosis, Enteritis, Epizootic diseases, Livestock diseases, Swine.

2888-69
EGG PRODUCTION AND DISEASE.
D M Berry
Vet Rec 83(24):611-612
14 Dec 1968 41.8 V641
Antigens, Chickens, Eggs, Infectious bronchitis virus, Mycoplasma gallisepticum, Productivity, Virus diseases (animals). Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2889-69
NITRITE-INDUCED GERMINATION OF CLOSTRIDIUM BUTYRICUM AND CLOSTRIDIUM TYROBUTYRICUM SPORES.
B H Bester J W Claassens P M Lategan
S Afr J Agr Sci 10(4):1055-1058
Dec 1967 24 SU3
Biochemistry, Clostridium, Culture media, Nitrites, Spore germination.

2890-69
DIFFERENTIAL DIAGNOSIS OF BOVINE ENCEPHALITIDES.
E J Bicknell
U S Livestock Sanit Ass Proc 70:162-165
10 Oct 1966 49.9 UN3R
Animal diseases, Cattle, Diagnosis, Encephalitis, Listeriosis, Livestock diseases, Polioencephalomyclitis, Rabies.

2891-69
THE LEUCOCYTE COUNTS OF CATTLE ABORTING DUE TO BRUCELLA ABORTUS INFECTION COMPARED TO LEUCOCYTE COUNTS OF NONINFECTED CATTLE CALVING NORMALLY.
B W Bierer H S Powell
U S Livestock Sanit Ass Proc 70:107-109
10 Oct 1966 49.9 UN3R
Abortion, Bacteria, Brucella abortus, Cattle, Leukocytes, Livestock diseases, Reproduction.

2892-69
PROTEIN-DEFICIENT DIET AND DDT TOXICITY.
E M Boyd E S De Castro
World Health Organ Bull 38(1):141-150 REF
1968 449.9 W892B
Animal nutrition, Chlorinated hydrocarbons, Diet, DDT, Insecticides, Kidneys, Liver, Proteins, Rats. French summary.

2893-69
CLINICAL SIGNS AND PATHOLOGY OF CHRONIC PANCREAS DISEASES OF THE DOG. (GE)
M Brack P Bartels
Kleintier-Praxis 13(1):9-16 REF
Feb 1968 41.8 K67
Animal diseases, Dogs, Neoplasms, Pancreas, Serological tests, Symptomatology.

2894-69
CONTROL OF DNA SYNTHESIS IN CELLS INFECTED WITH POLYOMA VIRUS.
P E Branton R Sheinin
Virology 36(4):652-661 REF
Dec 1968 448.8 V81
Cells, Deoxyribonucleic acid, Mice, Polyoma virus, Synthesis, Virus diseases (animals).

2895-69
SYMPOSIUM: MYCOSIS.
Vet Rec 83(24):633-635
14 Dec 1968 41.8 V641
Animal diseases, Mycosis, Symposia, Veterinary medicine. Summaries of papers and discussions presented to the B.V.A. Congress in Swansea from Sept. 16-20, 1968.

2896-69
EPIDERMAL CHALONE AND MITOTIC CONTROL IN THE VX2 EPIDERMAL TUMOUR.
W S Bullough E B Laurence
Nature 220(5163):134-135
12 Oct 1968 472 N21
Animal diseases, Biochemistry, Cancer, Drug therapy, Extracts, Hamsters, Hormones, Inhibitors, Mice, Mitosis, Neoplasms, Skin, Synthesis, Tissues.

2897-69
INACTIVATION OF CANDIDA ALBICANS BY ULTRAVIOLET RADIATION.
D L Busbee A Sarachek
Arch Mikrobiol 64(4):289-314 REF
30 Jan 1969 442.8 AR26
Candida albicans, Deoxyribonucleic acid, Metabolism, Physiology, Ultraviolet rays.

2898-69
SHEEP FOOT ROT CONTROL.
G L Crenshaw B McGowan
U S Livestock Sanit Ass Proc 70:471-475
10 Oct 1966 49.9 UN3R
Foot rot (animals), Livestock, Livestock diseases, Research, Sheep, Veterinary medicine.

2899-69
EQUINE INFECTIOUS ANEMIA.
W J B Ditchield
U S Livestock Sanit Ass Proc 70:219-223 REF
10 Oct 1966 49.9 UN3R
Diagnosis, Equine infectious anemia, Horses, Infectious diseases, Serological tests, Virus diseases (animals).

2900-69
SALMONELLOSIS.
P R Edwards M M Galton
Advances Vet Sci 11:1-63 REF
1967 41.8 AD9
Animals, Bacterial diseases (animals), Bibliography, Disease control, Disease transmission, Salmonella, Salmonellosis, Surveys, Taxonomy.

The bacterium Salmonella is discussed as to its taxonomy, isolation, occurrence in man and other animals, transmission in food materials, and control.

2901-69
HAEMORRHAGIC NEPHRITIS IN EXPERIMENTAL BOVINE LEPTOSPIROSIS BRATISLAVA.
K L Fennestad T S Olsen C B Petersen
Acta Pathol Microbiol Scand 71(2):245-264 REF
1967 448.3 AC8
Cattle, Leptospires, Leptospirosis, Livestock diseases, Nephritis, Serological tests, Symptomatology, Toxins.

2902-69
EPIZOOTIOLOGY.
D H Ferris
Advances Vet Sci 11:261-320 MAP REF
1967 41.8 AD9
Bibliography, Ecology, Epidemiology, Epizootic diseases, Methodology.

The principles, organization, and experimental design of epizootiologic research are reviewed in depth and an extensive bibliography is included.

2903-69
EFFECTS OF DIETS LOW IN CALCIUM AND/OR PHOSPHORUS IN LAMBS.
A C Field N F Suttle D I Nisbet
Vet Rec 83(24):605
14 Dec 1968 41.8 V641
Animal nutrition, Bones, Calcium, Diet, Phosphorus, Physiology, Sheep. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2904-69
FEEDING CHLORTETRACYCLINE TO RANGE CATTLE TO ELIMINATE THE CARRIER STATE OF ANAPLASMOSIS.
T E Franklin R W Cook D J Anderson
U S Livestock Sanit Ass Proc 70:85-90
10 Oct 1966 49.9 UN3R
Anaplasmosis, Antibiotics, Cattle, Chlortetracycline, Drug therapy, Feeding, Livestock diseases.

2905-69
ETIOLOGY OF KIDNEY DISEASE IN DOGS AND CATS.
U Freudiger
Sweiz Arch Tierheilk 110(6):275-288 REF
Jun 1968 41.8 SCH9
Animal diseases, Cats, Dogs, Kidneys, Nephritis, Pathogenesis. English, French, and Italian summary

2906-69
THE VIRUS-CAUSED RESPIRATORY DISEASES OF THE CAT. (GE)
U Freudiger
Kleintier-Praxis 13(1):4-9 REF
Feb 1968 41.8 K67
Cats, Climate, Diagnosis, Epidemiology, Feline infectious enteritis, Feline pneumonitis, Herpesviruses, Picornaviruses, Respiratory diseases, Rhinotracheitis, Serological tests, Symptomatology, Virology, Virus diseases (animals).

2907-69
LUPINOSIS.
M R Gardiner
Advances Vet Sci 11:85-138 REF
1967 41.8 AD9
Alkaloids, Bibliography, Disease control, Jaundice, Liver diseases, Lupine, Pathology, Poisonous plants.

A literature review of the etiology, pathology and control of lupinosis, a livestock disease resulting from ingestion of the toxic herb, Lupinius, is presented.

2908-69
MALARIA IN MAMMALS EXCLUDING MAN.
P C C Garnham
Advances Parasitol 5:139-204 REF
1967 436.8 AD9
Bibliography, Disease transmission, Immunity, Life cycle, Malaria, Mammals, Morphology, Pathogenesis, Plasmodium, Taxonomy.

A literature review of the taxonomy, life cycles, morphology, transmission, pathogenesis, immunology and serology of Plasmodia is presented.

2909-69
SHARED GROUP-SPECIFIC ANTIGEN OF MURINE AND FELINE LEUKEMIA VIRUSES.
G Geering W D Hardy L J Old E Harven R S Brodey
Virology 36(4):678-680 REF
Dec 1968 448.8 V81
Antigens, Cats, Leukemia, Mice, Rats, Serological tests, Virus diseases (animals).

2910-69
CLINICAL SIGNS AND PATHOLOGY OF PANCREAS DISEASES OF THE DOG. (GE)
S Geyer B Bibrack T Hanichen
Kleintier-Praxis 13(1):17-24 REF
Feb 1968 41.8 K67
Animal diseases, Cirrhosis, Diagnosis, Dogs, Pancreas, Pancreatic cystic fibrosis, Symptomatology, Tables (data).

2911-69
THE EFFECT OF CONDITIONS OF CULTIVATION OF THE POLIOMYELITIS VIRUS ON THE FREQUENCY OF MUTATIONS AFFECTING THE GUANIDINE CHARACTER. (RUS)
U Z Ghendon A T Marchenko
Genetika (5):143-147
1967 QH431.A1G4
Animal genetics, Guanidine, Monkeys, Mutation, Poliomyelitis, Temperature, Tissue culture, Virology, Virus diseases (animals). English summary

2912-69
ABORTIONS IN CATTLE: ISOLATION OF SALMONELLA DUBLIN. (POR)
W Giorgi A O Lobad C A Santa Rosa E Franca
Sao Paulo Inst Biol Arq 35(4,OCT-DEC):185-188
Dec 1968 442.9 SA6
Abortion, Cattle, Salmonella dublin, Serological tests, Vaccines. English abstract

2913-69
TOXOPLASMOSIS INFRCTION FROM RABBIT TO MEN. REPORT OF A CASE. (POR)
W Giorgi O Campedelli Filho V do Amaral
Sao Paulo Inst Biol Arq 35(2,APR-JUN):87-88
Jun 1968 442.9 SA6
Animal disease transmission, Human diseases, Rabbits, Toxoplasma gondii, Toxoplasmosis. English abstract.

2914-69
PATHOGENIC ESCHERICHIA COLI STRAINS PREVALENT IN POULTRY FLOCKS IN ISRAEL.
E D Heller M Perek
Brit Vet J 124(11):509-513 REF
Nov 1968 41.8 V643
Bacterial diseases (animals), Chickens, Escherichia coli, Lesions, Poultry diseases, Serological tests.

2915-69
THE OUTBREAK OF FOOT-AND-MOUTH DISEASE IN WORCESTERSHIRE. AN EPIDEMIOLOGICAL STUDY: WITH SPECIAL REFERENCE TO SPREAD OF THE DISEASE BY WIND-CARRIAGE OF THE VIRUS.
R J Henderson
J Hyg 67(1):21-33
Mar 1969 449.8 J82
Epidemiology, Foot-and-mouth disease, Swine, Virus diseases (animals), Wind dispersal.

2916-69
A TREND IN THE PREVALENCE OF BRUCELLOSIS IN IOWA SWINE.
S L Hendricks W J Hausler
U S Livestock Sanit Ass Proc 70:110-115 MAP
10 Oct 1966 49.9 UN3R
Agglutination test, Brucellosis, Immunochemistry, Livestock diseases, Serological tests, Swine.

2917-69
EVOLUTIONARY TRENDS IN MAMMALIAN TRYPANOSOMES.
C A Hoare
Advances Parasitol 5:47-91 MAP REF
1967 436.8 AD9
Bibliography, Evolution, Protozoa, Taxonomy, Trypanosoma, Trypanosomatidae.

2918-69
EPIDEMIOLOGICAL STUDIES ON SALMONELLA SENFTENBERG. II. INFECTIONS IN FARM ANIMALS.
M E Hugh-Jones
J Hyg 67(1):89-94 REF
Mar 1969 449.8 J82
Cattle, Epidemiology, Livestock diseases, Poultry, Salmonella senftenberg, Sheep.

2919-69
STAND-BY SERVICE MAINTAINS CONSTANT VIGILANCE AGAINST ANIMAL DISEASE OUTBREAKS.
W H Hughes
New Zeal J Agr 116(5):35
May 1968 23 N48J
Agricultural legislation, Disease control, Epizootic diseases, Livestock diseases.

2920-69
ANTIMICROBIAL EVALUATION OF 1-METHYL-3-NITRO-1-NITROSOGUANIDINE.
D E Hunt R F Pittillo
Appl Microbiol 16(12):1879-1880
Dec 1968 448.3 AP5
Animal diseases, Antibiotics, Bacteria, Escherichia coli, Fungus diseases (animals), Methyl-3-nitro-1-nitrosoguanidine, 1-, Mice, Staphylococcus aureus.

2921-69
STUDIES ON E. COLI VACCINES TO PROTECT PIGS AGAINST POSTWEANING COLIFORM INFECTIONS.
P L Ingram
Vet Rec 83(24):606
14 Dec 1968 41.8 V641
Bacteria, Escherichia coli, Gastroenteritis, Livestock diseases, Research, Swine, Vaccines. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2922-69
SALMONELLA AND ARIZONA IN REPTILES AND MAN IN WESTERN AUSTRALIA.
J B Iveson E M Mackay-Scollay V Bamford
J Hyg 67(1):135-145 REF
Mar 1969 449.8 J82
Paracolobactrum arizonae, Reptilia, Salmonella, Surveys, Zoogeography.

2923-69
TOXOPLASMA AND TOXOPLASMOSIS.
L Jacobs
Advances Parasitol 5:1-45 REF
1967 436.8 AD9
Bibliography, Disease transmission, Electron microscopy, Epidemiology, Physiology, Protozoa, Serological tests, Tissue culture, Toxoplasma gondii, Toxoplasmosis.
Toxoplasma is discussed with respect to its electron microscopy, mechanisms of transmission, serology, epidemiology, pathology, physiology, and therapy.

2924-69
EPIDEMIOLOGICAL CONSIDERATIONS FOR THE CONTROL OF BOVINE VIRUS DIARRHEA.
R F Kahrs D S Robson J A Baker
U S Livestock Sanit Ass Proc 70:145-153
10 Oct 1966 49.9 UN3R
Antibodies, Bovine virus diarrhea virus, Cattle, Epidemiology, Immunology, Livestock diseases, Virus diseases (animals).

2925-69
LASTING INTERRUPTIONS IN EPIZOOTIC ACTIVITY OF NATURAL PLAGUE FOCI AND THEIR POSSIBLE CAUSES. (RUS)
N I Kalabukhov
Zool Zhur 48(2):165-178
Feb 1969 410 R92
Animal ecology, Animal vectors, Epizootic diseases, Rodents, Siphonaptera. English abstract

2926-69
VALUE AND INTERPRETATION OF SEROLOGICAL TESTS FOR THE DIAGNOSIS OF CRYPTOCOCCOSIS.
L Kaufman S Blumer
Appl Microbiol 16(12):1907-1912 REF
Dec 1968 448.3 AP5
Agglutination, Animal diseases, Antibodies, Cryptococcosis, Cryptococcus neoformans, Diagnosis, Fluorescent antibody technic, Latex, Serological tests.

2927-69
VENEZUELAN EQUINE ENCEPHALITIS.
R E Kissling R W Chamberlain
Advances Vet Sci 11:65-84 REF
1967 41.8 AD9
Bibliography, Culicidae, Disease control, Epidemiology, Insect vectors, Pathology, Venezuelan equine encephalitis virus, Virus diseases (animals).
A review of Venezuelan Equine Encephalitis including its epidemiology, symptomatology, pathology and control is presented.

2928-69
CYTOCHEMICAL STUDIES ON THE LEPTOMONAD FORM OF LEISHMANIA DONOVANI.
T Koyama A Ilardi
Parassitologia 10(1):17-32 REF
Jul 1968 436.8 P212
Biochemistry, Cytology, Histology, Leishmaniasis.

2929-69
HETEROTRANSMISSION OF AVIAN MYELOBLASTOSIS VIRUS TO HAMSTERS. (FR)
F Lacour E Delain G Camus F May-Levin
Acad Sci Compt Rend Ser D Sci Nat 268(3, 1ST SEMESTER):631-634 REF
20 Jan 1969 505 P21
Animal physiology, Antigens, Avian myeloblastosis virus, Hamsters, Immunization.

2930-69
STUDIES ON THE BLOOD CHEMISTRY OF CATTLE IN A HERD INFECTED WITH JOHNE'S DISEASE.
A B Larsen K E Kopecky
U S Livestock Sanit Ass Proc 70:189-193 REF
10 Oct 1966 49.9 UN3R
Bacteria, Blood, Calcium, Cattle, Chemistry, Johne's disease, Livestock diseases, Magnesium, Phosphorus, Potassium, Research, Serological tests, Sodium.

2931-69
BOVINE LEUKEMIA: A CLINICAL, EPIDEMIOLOGICAL AND EXPERIMENTAL STUDY.
V L Larson
Diss Abstr Sect B 29(3):825B-826B
Sep 1968 Z5055.U49D53
Cattle, Environment, Epidemiology, Hematology, Leukemia, Livestock diseases, Lymphocytosis, Research, Symptomatology.

2932-69
SHOPE FIBROMA VIRUS GROWTH CURVE IN SUSPENDED TISSUE CULTURE.
P E Lemoine A Karl C E Schwerdt
World Health Organ Bull 38(1):127-133 REF
1968 449.9 W892B
Kidneys, Pox-tumor viruses, Rabbit fibroma virus, Rabbits, Tissue culture. French summary.

2933-69
CHLOROTHIAZIDE, DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.
H L Ley
Fed Regist 34(38):2622-2623
26 Feb 1969 L1.451
Accident prevention, Chlorothiazide, Cirrhosis, Dogs, Dosage, Drug therapy, Drugs, Heart failure, Symptomatology, Veterinary medicine.

2934-69
DIAGNOSTIC TESTS FOR BRUCELLOSIS.
R M MacKenzie
Scot Agr 47(3,SUMMER):115-117
1968 10 SCO82SO
Antibodies, Brucellosis, Culture media, Diagnostic procedures, Guinea pigs, Microscopy, Serological tests, Tissue culture.

2935-69
SALMONELLOSIS IN CALVES.
A P C MacLaren
Scot Agr 46(4,AUTUMN):191-193
1967 10 SCO82SO
Bacterial diseases (animals), Calves, Diagnosis, Disease control, Disease transmission, Salmonella typhimurium, Salmonellosis, Symptomatology.
The symptoms, diagnosis, transmission, prevention, and control of salmonellosis in calves are discussed.

2936-69
MANAGEMENT AND DISEASES OF CAGED BIRDS.
W Marbach M Lindtner
Agr Gaz New S Wales 79(11):690-696
Nov 1968 23 N472
Birds, Chemical control (animal diseases), Deficiency diseases, Drug therapy, Helminths, Psittacosis, Psocoptera, Salmonellosis.

The symptomatology and therapeutics of bacterial, helminthic and deficiency diseases and control of external parasites are presented.

2937-69
CONTROL OF CALF SCOURS IN THE SUCKLER COW HERD.
A O Mathieson
Scot Agr 46(1,WINTER):40-44
1966 10 SCO82SO
Antibiotics, Calves, Colibacillosis, Diagnosis, Drug therapy, Livestock diseases.

The symptomatology and etiology of colibacillosis in suckling calves in scotland are described. Preventative measures consist of sanitary farm practises. The sclective use of antibiotics is the recommended therapy.

2938-69
OBSERVATIONS ON POLYOMA VIRUS FILAMENTS.
C F T Mattern DeLeva
Virology 36(4):683-685
Dec 1968 448.8 V81
Cell nucleus, Deoxyribonucleic acid, Polyoma virus, Virus diseases (animals).

2939-69
INFLUENZA IN ANIMALS.
J L McQueen J H Steele R Q Robinson
Advances Vet Sci 12:285-336 REF
1968 41.8 AD9
Birds, Diagnosis, Disease control, Horses, Influenza, Swine, Taxonomy, Virus diseases (animals).

Research on equine, swine, and avian influenza is reviewed as to its diagnosis, serology, etiology, and control. The classification of the myxovirus and isolation techniques are also included.

2940-69
DERMAL LESIONS IN AVAIN LEUCOSIS.
D H McWade J N Beasley
U S Livestock Sanit Ass Proc 70:607-613
10 Oct 1966 49.9 UN3R
Avian leukosis complex, Avian lymphomatosis, Diagnosis, Poultry, Poultry diseases, Skin, Virus diseases (animals).

2941-69
HOST-PARASITE RELATIONSHIPS IN BRUCELLOSIS. I. RESERVOIRS OF INFECTION AND INTERHOST TRANSMISSIBILITY OF THE PARASITE.
M E Meyer
U S Livestock Sanit Ass Prac 70:129-134
10 Oct 1966 49.9 UN3R
Animal diseases, Bacteria, Brucellosis, Livestock, Parasitism, Rodents, Susceptibility, Wildlife.

2942-69
PORCINE POLIOENCEPHALOMYELITIDES.
J H L Mills S W Nielsen
Advances Vet Sci 12:33-104 REF
1968 41.8 AD9
Diagnosis, Disease control, Disease transmission, Epidemiology, Pathology, Swine, Teschen disease, Tissue culture, Vaccines, Virus diseases (animals).

Research on porcine polioencephalomyelitides, Teschen disease, is reviewed with regard to diagnosis, epidemiology, pathology, scrology, experimental disease transmission, and vaccination.

2943-69
EQUINE INFECTIOUS ANEMIA-A DIAGNOSTIC PROBLEM.
R W Moore H E Redmond D H Lewis
U S Livestock Sanit Ass Prac 70:255-260
10 Oct 1966 49.9 UN3R
Antigens, Diagnosis, Equine infectious anemia, Horses, Precipitin test, Virus diseases (animals).

2944-69
INFECTIOUS KERATOCONJUNCTIVITIS IN SHEEP CAUSED BY MORAXELLA BOVIS. (POR)
G Moreno J A Bottino E N Mos
Sao Paula Inst Bial Arq 35(4,OCT-DEC):181-183 REF
Dec 1968 442.9 SA6
Infectious diseases, Keratoconjunctivitis, Moraxella bovis, Sheep. English abstract

2945-69
INFECTIOUS KERATOCONJUNCTIVITIS IN CATTLE CAUSED BY NEISSERIA (NEISSERIA OVIS N. SP. LINDQVIST, 1960). (POR)
G Moreno J A Bottino E N Mos R M Yanaguita
Sao Paula Inst Bial Arq 35(4,OCT-DEC):173-179 REF
Dec 1968 442.9 SA6
Biochemistry, Cattle, Infectious diseases, Keratoconjunctivitis, Neisseria ovis, Physiology. English abstract

2946-69
THE DISCOVERY OF TWO SPECIES OF TRICHOMONAS IN FECES OF TWO DOGS. (IT)
L Morganti G Ricci Bitti
Parassitologia 10(1):11-16
Jul 1968 436.8 P212
Baby pigs, Dogs, Feces, Morphology, Trichomonas. English summary.

2947-69
INFECTIOUS BURSAL DISEASE (GUMBORO).
I M Moulthrop
U S Livestock Sanit Ass Proc 70:438-439
10 Oct 1966 49.9 UN3R
Eggs, Feed, Gumboro disease, Poultry, Poultry diseases, Virus diseases (animals).

2948-69
ACCREDITED PULLORUM TESTED FLOCK SCHEME HATCHERY SCHEME.
Agr Gaz New S Wales 79(10):630-632
Oct 1968 23 N472
Germ-free life, Poultry disease prevention, Poultry hatcheries, Salmonella pullorum.

In order to control Salmonella pullorum in poultry a classification scheme for accrediting hatcheries and a list of accredited hatcheries in New Zealand are presented.

2949-69
THE BIOLOGY OF THE ACANTHOCEPHALA.
W L Nicholas
Advances Parasitol 5:205-246 REF
1967 436.8 AD9
Acanthocephala, Bibliography, Cytology, Embryology, Histochemistry, Histology, Host relationships, Morphology.

A literature review on the embryology, post embryonic development, histology, cytology, histochemistry, host-parasite interactions, and the importance of acanthocephala in medicine is presented.

2950-69
NOCARDIA ASTEROIDES, CAUSE OF AN ENDEMIC MASTITIS IN THE COW. (FR)
J Nicolet A Repond H Konic H Baumgartner
Sweiz Arch Tierheilk 110(6):289-301
Jun 1968 41.8 SCH9
Dairy cattle, Epidemiology, Lactation, Livestock diseases, Lymph nodes, Mastitis, Metastasis, Nocardia asteroides, Nocardiosis, Serological tests, Symptomatology, Udders. French, English and Italian summary.

2951-69
RABIES DIAGNOSIS. COMPARATIVE STUDY ON SUSCEPTIBILITY OF ADULT AND SUCKLING MICE.
M R Nilsson W Sugay O L Pasqualin S B K Miller
Saa Paulo Inst Biol Arq 35(2,APR-JUN):43-47 REF
Jun 1968 442.9 SA6
Diagnosis, Mice, Rabies, Serological tests.

2952-69
IN VITRO ABSORPTION OF BOVINE SERUM-ALBUMIN, GAMMAGLOBULIN AND BRUCELLA-ANTIGENS BY SPLEEN CELLS. (GE)
H Noltenius W Haas
Naturwissenschaften 55(11):547-548
Nov 1968 474 N213
Absorption, Antigens, Brucella, Cattle, Gamma globulins, Serum albumin, Tissue culture.

2953-69
EQUINE INFECTIOUS ANEMIA--THE SECOND TIME AROUND .
S R Nusbaum
U S Livestock Sanit Ass Prac 70:224-237
10 Oct 1966 49.9 UN3R
Drug therapy, Equine infectious anemia, Horses, Precipitin test, Steroids, Virus diseases (animals).

2954-69
THE DEVELOPMENT OF FELINE CELL LINES FOR THE GROWTH OF FELINE INFECTIOUS ENTERITIS (PANLEUCOPAENIA) VIRUS.
K J O'Reilly A M Whitaker
J Hyg 67(1):115-124 REF
Mar 1969 449.8 J82
Cats, Cytology, Feline infectious enteritis, Genetics, Methodology, Tissue culture, Virus diseases (animals).

2955-69
THE FRACTIONATION OF FOOT-AND-MOUTH DISEASE HYPERIMMUNE SERUM FROM CATTLE BY A COMBINATION OF GEL FILTRATION AND COLUMN ELECTROPHORESIS. (GE)
A-f Olechnowitz
Riems Isl Friedrich-laeffler Inst Arb 981-987
1967 41.9 R44
Cattle, Electrophoresis, Foot-and-mouth disease, Gels, Immunity, Serum, Virus diseases (animals). Russian and English summaries reprint: Archive for Experimental Veterinary Medicine vol. 20 no. 4, 1967

2956-69
RECENT ADVANCES IN OUR KNOWLEDGE OF PARTURIENT PARESIS WITH PARTICULAR REFERENCE TO THE ROLE OF VITAMIN D IN ITS PREVENTION.
J M Payne
Vet Rec 83(24):610
14 Dec 1968 41.8 V641
Animal nutrition, Calcium, Dairy cattle, Immunity, Livestock diseases, Metabolism, Milk fever, Paresis, Parturition, Vitamin d. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2957-69
SAFETY TESTING HOG CHOLERA LIVE VIRUS MODIFIED VACCINES.
C E Phillips
U S Livestock Sanit Ass Proc 70:302-309
10 Oct 1966 49.9 UN3R
Hog cholera vaccines, Hog cholera virus, Immunization, Swine, Virus diseases (animals).

2958-69
THE STATUS OF THE STATE-FEDERAL TUBERCULOSIS ERADICATION PROGRAM.
A F Ranney
U S Livestock Sanit Ass Prac 70:194-207 MAP
10 Oct 1966 49.9 UN3R
Agricultural regulation, Livestock diseases, Mycobacterium bovis, Tuberculosis.

2959-69
NOTES ON PASTEURELLA TULARENSIS ISOLATED FROM A VOLE, MICROTUS OECONOMUS PALLAS, IN ALASKA.
R L Rausch B E Huntley J G Bridgens
Can J Microbiol 15(1):47-55 REF
Jan 1969 448.8 C162

Animal adaptation, Animal morphology, Bacterial diseases (animals), Field mice, Isolates, Pasteurella tularensis, Serological tests, Tables (data), Tularemia, Zoogeography.

2960-69
THE ONOGENIC ACTION OF BOVINE PAPILLOMA VIRUS IN HAMPSTERS.
M G Robl
Diss Abstr Sect B 29(3):826B
Sep 1968 Z5055.U49D53
Cattle, Hamsters, Laboratory animals, Neoplasms, Oogenesis, Papilloma, Research, Transplanting, Virus diseases (animals).

2961-69
B.V.A. DISTEMPER PILOT SCHEME.
D N Ryland
Vet Rec 83(24):608-609
14 Dec 1968 41.8 V641
Animal diseases, Canine distemper, Dogs, Immunization. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2962-69
EQUINE LEPTOSPIROSIS. (POR)
C A Santa Rosa A F P de Castro O C Filho D de Mello
Sao Paulo Inst Biol Arq 35(2,APR-JUN):61-65 REF
Jun 1968 442.9 SA6
Agglutination test, Guinea pigs, Horses, Immunodiagnosis, Leptospirosis, Serum. English abstract

2963-69
STATUS OF STATE-FEDERAL BRUCELLOSIS ERADICATION PROGRAM.
E A Schilf
U S Livestock Sanit Ass Proc 70:116-128 MAP
10 Oct 1966 49.9 UN3R
Agricultural regulation, Brucellosis, Eradication, Livestock diseases.

2964-69
ANTIBIOTIC-SENSITIVITY OF S- AND R-FORMS OF SALMONELLA MINNESOTA. (GE)
S Schlecht O Westphal
Naturwissenschaften 55(10):494-495
Oct 1968 474 N213
Ampicillin, Antibiotics, Bacteriostats, Erythromycin, Salmonella, Tetracycline.

2965-69
MYCOSIS IN ANIMALS - SYSTEMIC DISEASE.
I G Shaw
Vet Rec 83(24):635
14 Dec 1968 41.8 V641
Abortion, Aflatoxicosis, Aspergillosis, Fog fever, Fungus diseases (animals), Mycosis. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2966-69
SOME ASPECTS OF CARDIO-VASCULAR DISEASE IN THE DOG.
J P Sheridan
Vet Rec 83(24):608
14 Dec 1968 41.8 V641
Animal diseases, Animal physiology, Blood vessels, Diagnosis, Dogs, Heart, Surgery, Therapeutics. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2967-69
USE OF ADULT MICE FOR POTENCY TESTING OF INACTIVATED TYPE O FOOT AND MOUTH DISEASE VACCINE.
F F Shevetsov S Kumar A C Goel B S Negi P N Khanna
Cur Sci 38(2):44-45
20 Jan 1969 475 SC123
Foot-and-mouth disease, Immunogenicity, Mice, Vaccines.

2968-69
RENAL PATHOLOGY OF THE FOWL.
W G Siller
Vet Rec 83(24):611
14 Dec 1968 41.8 V641
Glomerulonephritis, Gout, Kidneys, Livestock diseases, Poultry. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2969-69
BRUCELLOSIS IN BRITAIN.
J W Simpson
Scot Agr 47(3,SUMMER):109-115
1968 10 SCO82SO
Aging, Agricultural legislation, Brucella abortus, Brucellosis, Cattle, Disease control, Serological tests, Vaccines.

2970-69
A PROSPECTUS ON EQUINE INFECTIOUS ANEMIA WITH GUIDELINES.
W L Sippel
U S Livestock Sanit Ass Proc 70:245-254
10 Oct 1966 49.9 UN3R
Agricultural regulation, Equine infectious anemia, Horses, Virus diseases (animals).

2971-69
TRIALS AND TRIBULATIONS OF A STATE-WIDE MASTITIS PROGRAM.
A R Smith
U S Livestock Sanit Ass Proc 70:177-180
10 Oct 1966 49.9 UN3R
Agricultural regulation, Livestock diseases, Mastitis, Milk.

2972-69
A NEW APPROACH TO DEVELOPMENT OF LIVE VACCINE AGAINST TICK-BORNE ENCEPHALITIS.
A A Smorodintsev A V Dubov V I Ilyenko V G Platonov
J Hyg 67(1):13-20
Mar 1969 449.8 J82
Encephalitis, Insect vectors, Ixodes persulcatus, Ixodes ricinus, Methodology, Viral vaccines.

2973-69
THE PROTEINS SPECIFIED BY HERPES SIMPLEX VIRUS. I. TIME OF SYNTHESIS, TRANSFER INTO NUCLEI, AND PROPERTIES OF PROTEINS MADE IN PRODUCTIVELY INFECTED CELLS.
P G Spear B Roizman
Virology 36(4):545-555 REF
Dec 1968 448.8 V81
Cell nucleus, Electrophoresis, Herpes simplex, Human diseases, Proteins, Synthesis, Virus diseases (animals).

2974-69
ABC OF DOG DISEASES: A GUIDE FOR OWNERS AND BREEDERS. 3RD. EDITION. (GE)
P Teichmann
270P REF LEIPZIG, EAST GERMANY, S. HIRZEL VERLAG
1968 SF991.T4
Animal breeding, Animal diseases, Animal physiology, Dogs, Pets, Veterinary medicine.

2975-69
STATUS OF STATE-FEDERAL HOG CHOLERA ERADICATION PROGRAM.
M J Tillery
U S Livestock Sanit Ass Proc 70:326-334 MAP
10 Oct 1966 49.9 UN3R
Agricultural regulation, Hog cholera virus, Livestock diseases, Swine, Virus diseases (animals).

2976-69
THE ROLE OF MEAT INSPECTION IN A DISEASE REPORTING SYSTEM.
G B Van Ness
U S Livestock Sanit Ass Proc 70:396-402 MAP
10 Oct 1966 49.9 UN3R
Agricultural regulation, Animal diseases, Livestock diseases, Meat, Meat inspection, Mycobacterium avium, Mycobacterium bovis.

2977-69
ESSAY ON PREVENTION OF RABBIT RABIES BY MEANS OF A TISSUE EXTRACT OF THE INTERFERENCE TYPE INJECTED DURING THE INCUBATION PERIOD. (FR)
J Vieuchange A Fayaz
Acad Sci Compt Rend Ser D Sci Nat 268(6, 1ST SEMESTER):991-993 REF
10 Feb 1969 505 P21
Immunity, Rabbits, Rabies, Tissue culture, Vaccines, Virology.

2978-69
HETEROTYPIC HOG CHOLERA PROTECTION IN SWINE: AN ANALYSIS OF THE RESPONSE.
F J Volenec D E Sheffy J A Baker
U S Livestock Sanit Ass Proc 70:295-301 REF
10 Oct 1966 49.9 UN3R
Antibodies, Hog cholera virus, Immunization, Livestock diseases, Swine, Virus diseases (animals).

2979-69
COMPARATIVE ELECTRON MICROSCOPE AND LIGHT MICROSCOPE STUDIES ON DIFFERENT DEVELOPMENTAL STAGES OF KLOSSIA HELICINA (COCCIDIA, ADELEIDEA). (GE)
B Volkmann
Z Parasitenk 29(2):159-208 REF
1967 442.8 Z33F
Coccidiosis, Cytology, Electron microscopy, Histology, Snails. English abstract

2980-69
THE PATHOGENESIS OF INTERDIGITAL CYST.
J Whitney
Vet Rec 83(24):604
14 Dec 1968 41.8 V641
Animal diseases, Diagnosis, Dogs, Interdigital fibroma, Keratins, Staphylococcus aureus. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2981-69
EAST COAST FEVER.
J K H Wilde
Advances Vet Sci 11:207-259 REF
1967 41.8 AD9
Bibliography, Cattle, Disease transmission, East coast fever, Epizootic diseases, Immunity, Morphology, Pathology, Protozoa, Taxonomy, Theileria parva, Tissue culture.

A literature review concerning East Coast Fever in cattle including etiologic, pathologic, immunologic and therapeutic aspects of infection is presented. The life cycle and means for culturing the disease agent, Theileria parva, is also discussed.

2982-69
BRUCELLOSIS AND THE VETERINARY SURGEON.
E Williams
Vet Rec 83(24):610
14 Dec 1968 41.8 V641
Brucellosis, Diagnosis, Livestock diseases, Veterinarians. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2983-69
ISOLATION OF TOXOPLASMA GONDII FROM THE FLESH OF SHEEP, SWINE AND CATTLE.
K Work
Acta Pathol Microbiol Scand 71(2):296-306 REF
1967 448.3 AC8
Antibodies, Cattle, Digestion, Dyes, Livestock diseases, Parasitism, Serological tests, Sheep, Surveys, Swine, Toxoplasma gondii, Toxoplasmosis.

2984-69
AN ELECTRON MICROSCOPIC ANALYSIS OF PHAGOCYTES INFECTED WITH BRUCELLA ABORTUS.
M J Zanardi
Diss Abstr Sect B 29(3):864B-865B

Sep 1968 Z5055.U49D53
Bacteriology, Brucella abortus, Electron microscopy, Guinea pigs, Parasitism, Phagocytes, Tissue culture, Virulence.

2985-69
SPREADING CHARACTERISTICS OF COMMERCIAL HOG CHOLERA MODIFIED LIVE VIRUS VACCINES IN SWINE. I. IN VIVO STUDIES.
M R Zinober L O Mott
U S Livestock Sanit Ass Proc 70:310-325 REF
10 Oct 1966 49.9 UN3R
Hog cholera vaccines, Hog cholera virus, Immunization, Livestock diseases, Research, Swine, Virus diseases (animals).

ARTHROPODS

2986-69
INSECTS AND OTHER ARTHROPODS OF IMPORTANCE DURING 1967 IN HOUSEHOLDS AND ON LIVESTOCK IN ONTARIO.
W C Allan
Entomol Soc Ontario Proc 98:11-12 MAP
1967 420 ON8
Arthropoda, Household pests, Insects, Livestock, Surveys, Time.

2987-69
A STUDY OF THE DISTRIBUTION OF GLOSSINA IN ETHIOPIA. (FR)
J Balis P Bergeon
World Health Organ Bull 38(5):809-813 REF
1968 449.9 W892B
Glossina, Insect identification, Livestock diseases, Trypanosomiasis, Zoogeography.

2988-69
A METHOD FOR ACCURATE COUNTING OF BLACKFLY LARVAE (DIPTERA: SIMULIIDAE).
L C Curtis
Mosquito News 28(2):238-239
Jun 1968 421 M85
Insect population statistics, Methodology, Sampling (statistics), Simuliidae.

2989-69
MITE PARASITES OF SMALL MAMMALS FROM SCRUB TYPHUS FOCI IN AUSTRALIA.
R Domrow
Australian J Zool 15(4):759-798 MAP REF
Aug 1967 410 AU73
Catalogs, Ecology, Host range, Host relationships, Mammals, Parasitic mites, Zoogeography.

2990-69
CONTROL OF LICE IN SHEEP AND CATTLE.
N S M Macleod
Scot Agr 46(4,AUTUMN):201-204
1967 10 SCO82SO
Anoplura, Cattle, Chemical control (insects), Insecticides, Organophosphorus compounds, Sheep.

2991-69
CUTEREBRID INFESTATION OF MICROTUS IN EASTERN NORTH DAKOTA, PENNSYLVANIA, AND NEW YORK.
F W Maurer J E Skaley
J Mammal 49(4):773-774
Nov 1968 410 J823
Cuterebra, Field mice, Larvae, Mice, Myiasis, Parasitic insects, Zoogeography.

PARASITES

2992-69
OESOPHAGOSTOMUM LONGICAUDUM GOODEY, 1925, (NEMATODA: CYATHOSTOMIDAE) IN PIG FROM THE STATE OF SAO PAULO, BRAZIL. (POR)
V do Amaral A J L Develey
Sao Paulo Inst Biol Arq 35(2,APR-JUN):83-85
Jun 1968 442.9 SA6
Oesophagostomiasis, Oesophagostomum longicaudum, Swine, English abstract

2993-69
DEMODECTIC PARASITES IN LIVESTOCK.
D W Baker W F Fisher
U S Livestock Sanit Ass Proc 70:409-416 REF
10 Oct 1966 49.9 UN3R
Acariasis, Demodex, Livestock diseases, Nematodes, Parasitism, Rhabditis, Verminous dermatitis.

2994-69
PHARMACODYNAMIC PROPERTIES ON NEW ANTIHELMINTICS.
P Eyre
Vet Rec 83(24):605
14 Dec 1968 41.8 V641
Anthelmintics, Fascioliasis, Livestock diseases, Nematodiasis, Parasitism, Pharmacology, Properties, Taeniasis. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2995-69
TRICHINAE IN GARBAGE FED SWINE.
J C Jefferies V Beal T R Murtishaw W J Zimmermann
U S Livestock Sanit Ass Proc 70:349-357 MAP
10 Oct 1966 49.9 UN3R
Garbage, Livestock diseases, Parasitism, Swine, Trichinae, Trichinosis.

2996-69
HOST RESISTANCE IN THE CONTROL OF COCCIDIAL INFECTIONS.
L P Joyner
Vet Rec 83(24):612
14 Dec 1968 41.8 V641
Chemicals, Coccidiosis, Immunity, Livestock diseases, Parasitism, Poultry, Resistance. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

2997-69
THE LIFE HISTORY OF COOPERIA PECTINATA RANSOM.
R K Keith
Australian J Zool 15(4):739-744 REF
Aug 1967 410 AU73
Calves, Cooperia, Eggs, Larvae, Life cycle, Nematode morphology, Parasitic nematodes.

The life history of the nematode, Cooperia pectinata, a cattle parasite in Australia is discussed with observations on the morphology of its eggs and larvae.

2998-69
THE ULTRASTRUCTURE OF THE ALIMENTARY TRACT OF THE SKIN-PENETRATING LARVA OF NIPPOSTRONGYLUS BRASILIENSIS (NEMATODA).
D L Lee
J Zool 154(1):9-18 REF
Jan 1968 410.9 L84P
Electron microscopy, Gastrointestinal system, Histology, Larvae, Nematode morphology, Nippostrongylus brasiliensis, Ultrastructure.

2999-69
STOMACH WORM DISEASE IN YOUNG CATTLE.
A P C MacLaren
Scot Agr 47(1,WINTER):32-34
1967 10 SCO82SO
Cattle, Disease control, Life cycle, Livestock diseases, Organophosphorus compounds, Ostertagia ostertagi, Parasites, Symptomatology.

Cattle are parasitized by Ostertagia ostertagi which they pick up while grazing in infested pastures. The life cycle, symptoms, prevention, and treatments are discussed.

3000-69
SPRING RISE PHENOMENON IN OVINE HELMINTHIASIS II. IN STABLED EWES EXPERIMENTALLY INFECTED WITH HAEMONCHUS CONTORTUS.
B G Procter H C Gibbs
Exp Parasitol 23(3):323-330 REF
Dec 1968 436.8 EX7
Diagnosis, Haemonchus contortus, Pregnancy, Sheep.

3001-69
SOME PARASITES FROM THE CEYLON ELEPHANT (ELEPHAS MAXIMUS).
P Seneviratna
Ceylon Vet J 16(1/2,MAR-JUN):23
1968 41.8 C33
Animal diseases, Elephants, Helminths, Parasites, Zoogeography.

3002-69
LIVER FLUKE IN THE NORTH OF SCOTLAND.
P L Shanks
Scot Agr 47(3,SUMMER):159-160
1968 10 SCO82SO
Cattle, Drug therapy, Fasciola, Pest control, Sheep, Snails.

Liverfluke damage to cattle and sheep in Scotland and methods of eradicating both the fluke itself and its snail host are discussed.

3003-69
THE POST-EMBRYONIC DEVELOPMENTAL STAGES OF CESTODES.
M Voge
Advances Parasitol 5:247-297 REF
1967 436.8 AD9
Animal diseases, Cestoda, Insects, Mites, Physiology. Includes animal diseases; insects and mites as intermediate hosts.

3004-69
THE POST-EMBRYONIC DEVELOPMENTAL STAGES OF CESTODES.
M Voge
Advances Parasitol 5:247-297 REF
1967 436.8 AD9
Asexual reproduction, Bibliography, Cestoda, Development, Histochemistry, Host relationships, Morphology, Tissue culture.

A literature review of the life histories, structure, histochemistry, host relationships, and in vitro development of Cestoda is presented.

COMMODITY PROTECTION

MICROBIAL CONTAMINATION

3005-69
SCREENING OF FEED COMPONENTS FOR SALMONELLA WITH POLYVALENT H AGGLUTINATION.
J A Barkate
Appl Microbiol 16(12):1872-1874 REF
Dec 1968 448.3 AP5
Agglutination, Feed, Food contamination, Proteins, Salmonella, Serological tests.

3006-69
THE ROLE OF MEAT INSPECTION IN PUBLIC HEALTH.
J Payton
U S Livestock Sanit Ass Proc 70:376-395 REF
10 Oct 1966 49.9 UN3R
Agricultural regulation, Bacteria, Food contamination, Meat, Meat inspection, Public health.

3007-69
EXPERIENCES WITH CULTURE MEDIA FOR SELECTIVE MICROBIOLOGICAL ANALYSIS OF MEAT PRODUCTS. (GE)
G Reuter
Arch Lebensmittelhyg 19(4):84-89 REF
Apr 1968 41.8 L49
Bacteria, Culture media, Food sanitation, Meat, Microbiology, Tables (data).

3008-69
THE BEHAVIOR OF SOME HUMAN-PATHOGENIC GERMS AND BACTERIAL TOXINS IN FOOD AND THEIR DESTRUCTION THROUGH HEAT TREATMENTS OF THE FOOD PRODUCTS. I. SALMONELLA. (GE)
D Strcichan
Arch Lebensmittelhyg 19(4):89-93 REF
Apr 1968 41.8 L49
Food, Food contamination, Fruit, Heat treatment, Human diseases, Meat, Milk, Oysters, Poultry products, Salmonella, Tobaeco, Toxins, Vegetables.

ENVIRONMENTAL CONTAMINATION

3009-69
ON THE DISTRIBUTION OF PEST CONTROL AGENTS. (GE)
H Maier-Bode
Naturwissenschaften 55(10):470-473 REF
Oct 1968 474 N213
Adipose tissue (animals), Chlorinated hydrocarbons, Dieldrin, DDT, Endosulfan, Inseeticide residues, Organophosphorus eompounds, Parathion, Soil contamination, Surveys.

A survey is made of pesticide residues found in soil, animal and plant tissues, and water. The degradation of organophosphorous compounds and chlorinated hydrocarbons as they pass through various ecological systems are diseussed.

RESIDUES

3010-69
EFFECTS OF SOIL MICROORGANISMS AND SOIL PROPERTIES OF THE DISSIPATION OF SELECTED PESTICIDES.
D A Addison
Diss Abstr Sect B 29(3):844B
Sep 1968 Z5055.U49D53
Pesticides, Soil bacteria, Soil fungi, Soil mieroorganisms, Soil properties.

3011-69
DDT RESIDUES AND METABOLITES IN CANADIAN ATLANTIC COAST FISH.
J R Duffy D O'Connell
Can Fish Res Board J 25(1):189-195 R5F
Jan 1968 442.9 C16J
Chlorinated hydroearbons, Chromatography, DDT, Fish, Insecticide residues, Metabolites, Salmon, Trout.

Tissues and organs of salmon, brook trout and maekerel were analyzed for DDT, DDD, DDE and other metabolites.

3012-69
PESTICIDE RESIDUE IN FRESHWATER FISH OILS AND MEALS.
L C Dugal
Can Fish Res Board J 25(1):169-172
Jan 1968 442.9 C16J
Animals, Biological assay, Chlorinated hydrocarbons, Chromatography, Dieldrin, DDT, Feed, Fish meal, Heptaehlor, Insecticide residues.

The level of pestieide residues in four freshwater fish used for animal foods was found to be at a satisfactory level with the exception of oil from the Lake Michigan alewife.

3013-69
INSECTICIDE MIXTURE. NOTICE OF EXTENSION OF TEMPORARY TOLERANCE.
R E Duggan
Fed Regist 34(38):2624
26 Feb 1969 L1.451
Corn, Feed, Forage plants, Insectieide residues, Insecticides, Tolerances, Trimethylphenyl methylcarbamate, 2,3,5-.

3014-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(48):5128
12 Mar 1969 L1.451
Agrieultural products, Chemicals, Chloro-1-(2,4,5-triehlorophenyl)vinyl dimethyl phosphate, 2-, Chromatography, Corn, Forage plants, Inseeticide residues, Pesticides, Toleranees.

3015-69
TOLERANCES AND EXEMPTIONS FROM TOLERANCES FOR PESTICIDE CHEMICALS IN OR ON RAW AGRICULTURAL COMMODITIES. ENDOSULFAN.
R E Duggan
Fed Regist 34(48):5100-5101
12 Mar 1969 L1.451
Agrieultural produets, Chemicals, Endosulfan, Fruit, Pesticide residues, Pesticides, Tolerances, Vegetables.

3016-69
NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.
R E Duggan
Fed Regist 34(44):4899
06 Mar 1969 L1.451
Cattle, Chemieals, Chloro-1-(2,4,5-triehlorophenyl)vinyl dimethyl phosphate, 2-, Fats, Inseeticide residues, Meat, Milk, Pesticides, Regulation (pesticides).

3017-69
DRUG RESIDUES, SYNERGISM AND ANTAGONISM.
G T Edds
U S Livestock Sanit Ass Proc 70:421-426 REF
10 Oct 1966 49.9 UN3R
Aspergillus flavus, Drugs, Fungi, Insecticides, Pestieide residues, Steroids, Synergism, Toxicology.

3018-69
BIOLOGICAL METHODS FOR THE DETECTION OF PESTICIDE RESIDUES. (IT
S Foschi A Cesari E Olmo
Giornate Fitopatol 91-104 REF
26 Mar 1967 SB599.G5
Biology, Fungi, Inseets, Methodology, Pesticide residues, Protozoa, Statistical methods.

The method uses the following animals and fungi: Drosophila melanogaster, Tribolium confusum, T. eastaneum, Calandra oryzae, Daphnia magna, D. pulex, Artemia salina, Tetrahymena pyriformis, Aspergillus niger, Alternaria solani, A. tenuis, Botrytis cinerea, Rhodotorula glutinis, Saccharomyces eerevisiae and Torulopsis puleherimma.

3019-69
A STUDY OF PYRAZON AND ITS HERBICIDAL RESIDUES IN THE SOIL.
H M Hepworth
Diss Abstr Sect B 29(3):899B
Sep 1968 Z5055.U49D53
Beans, Grain, Growth factors, Herbieide residues, Humidity, Mustard, Pyrazon, Soil temperature, Soils, Sugar beets, Toxicology.

3020-69
RESIDUES OF MALATHION ON INDIAN RAPE SEED (BRASSICA CAMPESTRIS 6. VAR. DICHOTOMA WATT).
V S Kavadia R Lal
Indian J Agr Sci 38(4):708-713
Aug 1968 22 AG831
Biologieal assay, Bird rape, Chemieal analysis, Chemieal eontrol (inseets), Drosophila melanogaster, Insecticide residues, Malathion, Statistical analysis.

3021-69
QUALITATIVE AND QUANTITATIVE DETERMINATION OF EKATIN RESIDUES AND ANALYTICAL RESULTS OBTAINED IN VARIOUS CULTURES. (IT)
B La Roche
Giornate Fitopatol 87-90
26 Mar 1967 SB599.G5
Aearieides, Aphididae, Chemical analysis, Chromatography, Degradation, Ekatin, Food plants, Inseeticide residues, Metabolites, Toxieity.

3022-69
REPRODUCTION IN BROOK TROUT (SALVELINUS FONTINALIS) FED SUBLETHAL CONCENTRATIONS OF DDT.
K J Maeek
Can Fish Res Board J 25(9):1787-1796
Sep 1968 442.9 C16J
DDT, Fish, Inseeticide residues, Mortality, Reproduetion.

3023-69
INVESTIGATION INTO HERBICIDE RESIDUES. (GE)
H Maier-Bode
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):203-209
Feb 1967 410.9 G31M
Chemieal analysis, Diquat, Herbicide residues, Herbieides, Plant analysis, Potatoes, Rye, Surveys. English abstract

3024-69
DRUG RESIDUES AND THE VETERINARY PROFESSION.
P C Manley
U S Livestock Sanit Ass Proc 70:434-435
10 Oct 1966 49.9 UN3R
Antibioties, Drugs, Food, Humans, Pesticides, Residues, Veterinary medieine.

3025-69
COMMERCIAL ASPECTS OF PESTICIDE RESIDUES IN FOODSTUFF. (IT
G Mannelli
Giornate Fitopatol 45-48
26 Mar 1967 SB599.G5
Agrieultural products, Chlorinated hydroearbons, Dieldrin, DDT, Food eontamination, Forcign tradc, Organophosphorus compounds, Parathion, Pestieide residues, Tolerances, Vegetables.

3026-69
THE DISTRIBUTION, EXCRETION, AND METABOLITES OF MALEIC HYDRAZIDE IN RATS AND A METHOD FOR THE DETECTION OF METALDEHYDE IN PLANTS.
D L Mays
Diss Abstr Sect B 29(3):915B
Sep 1968 Z5055.U49D53
Animal metabolism, Carbon, Chromatography, Excreta, Lettuce, Malcic hydrazide, Metabolites, Metaldehyde, Pesticide residues, Radioaetive traeers, Rats.

3027-69
WOULD YOU BELIEVE .
R C Meier
Midwest Reg Turf Conf Proc 1968 MEETING:26
04 Mar 1968 60.19 M58
Aceident prevention, Chemicals, Equipment, Fungieides, Herbicides, Inseeticides, Turf.

3028-69
A CHECK OF THE RESISTANCE TO WASHING OF VARIOUS PESTICIDES ON APPLES AND GRAPES. (IT)
E Olmo B Guiati R Stanzani
Giornate Fitopatol 59-65
26 Mar 1967 SB599.G5
Apples, Captan, Chlorinated hydrocarbons, Detergents, Grapes, Irrigation, Mevinphos, Organophosphorus compounds, Parathion, Pestieide residues, Resistanee, Tables (data), Water.

3029-69
GAS CHROMATOGRAPHIC STUDY ON THE ENVIRONMENTAL AND FOODSTUFF POLLUTION THROUGH RESIDUES OF SYNTHETIC ORGANO-CHLORINATED INSECTICIDES. (IT)
B Paeeagnella L Prati G Cavazzini
Giornate Fitopatol 67-77 REF
26 Mar 1967 SB599.G5

Chlorine, Chromatography, Crops, Environment, Insecticide residues, Milk, Organic compounds, Water pollution. Residues of 10 insecticides were investigated among them were DDT, BHC, lindane, dieldrin and heptachlor.

3030-69
A KINETIC ANALYSIS OF HERBICIDE DEGRADATION IN SOIL.
R L Zimdahl
Diss Abstr Sect B 29(3):849B
Sep 1968 Z5055.U49D53
Degradation, Herbicide residues, Herbicides, Kinetics, Loam, Soil analysis.

TOXICOLOGY

3031-69
THE ROLE OF INTERFACIAL WATER IN THE TOLERANCE OF ROOTS TO TOXIC SOLUTIONS.
E E Albregts
Diss Abstr Sect B 29(3):839B-840B
Sep 1968 Z5055.U49D53
Corn, Growth factors, Plant physiology, Roots, Tolerances, Toxicology, Water.

3032-69
EFFECT OF SUBLETHAL DDT ON THE LATERAL LINE OF BROOK TROUT, SALVELINUS FONTINALIS.
J M Anderson
Can Fish Res Board J 25(12):2677-2682
Dec 1968 442.9 C16J
Animal physiology, DDT, Mortality, Nervous system, Temperature, Toxicology, Trout.

DDT makes the lateral line nerve of the trout, Salvelinus fontinalis, hypersensitive to low frequency pressure waves and cold temperatures.

3033-69
EFFECT OF PH AND IONIC FORCE ON THE REACTION RATE OF ORGANOPHOSPHORUS COMPOUNDS WITH SERUM-DERIVED CHOLINESTERASE.
A P Brestkin I L Brik
Biokhimiya 32(5,PT 2,SEP-OCT):833-838 REF
Oct 1967 385 B523
Cholinesterases, Horses, Hydrogen-ion concentration, Organic compounds, Phosphorus compounds, Serum, Toxicology. Russian journal- vol. 32(5):1004-1010, Sep-Oct, 1967

3034-69
PROCEDURE FOR AERIAL SPRAYING OF SERRATED TUSSOCK.
M H Campbell
Agr Gaz New S Wales 79(1):16-20
Jan 1968 23 N472
Aerial weed control, Chemical control (weeds), DPA, Methodology, Nassella trichotoma, Pasture management, Poisonous plants, Spraying.

Serrated tussock (Nassella trichotoma) is a plant toxic to livestock. methods of its erradication are discussed, especially acrial spraying with DPA.

3035-69
NITRATE-NITRITE INTOXICATION IN SWINE.
T M Curtin W T London
U S Livestock Sanit Ass Proc 70:339-348 REF
10 Oct 1966 49.9 UN3R
Livestock diseases, Nitrates, Nitrites, Poisoning, Swine, Toxicology.

3036-69
FIRST AID IN CASES OF ACUTE POISONING WITH AGRICULTURAL PESTICIDES. (IT)
F Fini
Giornate Fitopatol 35-43
26 Mar 1967 SB599.G5
Accident prevention, Medicine, Poisoning, Symptomatology, Therapy. Contains listing of active ingredients of pesticides, symptoms of poisoning and indicated therapy.

3037-69
THE METABOLISM OF PIPERONYL BUTOXIDE IN THE RAT WITH C14 IN THE METHYLENEDIOXY OR ALPHA-METHYLENE GROUP.
L Fishbein H L Falk J Fawkes S Jordan B Corbett
J Chromatography 41(1):61-79
22 Apr 1969 475 J824
Animal metabolism, Carbon-14, Chromatography, Insecticide synergists, Piperonyl butoxide, Radioactive tracers, Rats.

3038-69
DEGRADATION OF DDT IN ATLANTIC SALMON (SALMO SALAR).
G L Greer U Paim
Can Fish Res Board J 25(11):2321-2326 REF
Nov 1968 442.9 C16J
Adsorption, Chemical analysis, Chromatography, DDT, Metabolism, Salmon.

DDT absorbed by Atlantic salmon (Salmo salar) was changed metabolically into the less toxic substances DDE and TDE within nine hours, as shown by thin-layer chromatography.

3039-69
WATER CONTAINING ALGAE MAY BE DANGEROUS TO STOCK.
J S Healey
Agr Gaz New S Wales 79(3):157-159
Mar 1968 23 N472
Algae, Anacystis cyanea, Animal physiology, Aquatic plants, Livestock, Poisoning, Water pollution.

Certain strains of algae contain a substance that is quite toxic to animals. Drinking of algae contaminated water may cause death; dead algae are more toxic. The symptoms and prevention of this kind of poisoning are discussed.

3040-69
GROWTH AND RESISTANCE TO STRESS IN BROOK TROUT FED SUBLETHAL LEVELS OF DDT.
K J Macek
Can Fish Res Board J 25(11):2443-2451 REF
Nov 1968 442.9 C16J
DDT, Environmental effects, Mating habits, Mortality, Starvation, Stress, Temperature, Toxicity, Trout.

Evidence suggests that the mortality of DDT exposed trout was due to the interaction of DDT residues with a combination of environmental stresses, namely starvation, decreasing water temperature, and possibly the physiological stress associated with the spawning season.

3041-69
ELECTROCARDIOGRAPHIC ASPECTS OF EXPERIMENTAL METHYL-PARATHION POISONING. (IT)
E Orlando G B Raffi
Giornate Fitopatol 29-34 REF
26 Mar 1967 SB599.G5
Animal adaptation, Animal physiology, Electrocardiograms, Laboratory animals, Methyl parathion, Poisoning, Symptomatology.

3042-69
ASPERTOXIN, A HYDROXY DERIVATIVE OF O-METHYLSTERIGMATOCYSTIN FROM AFLATOXIN-PRODUCING CULTURES OF ASPERGILLUS FLAVUS.
J V Rodricks E Lustig A D Campbell L Stoloff
Tetrahedron Lett (25):2975-2978
May 1968 385 T29
Aflatoxin, Aspergillus flavus, Aspertoxin, Sterigmatocystins.

3043-69
POSSIBLE TOXIC EFFECTS OF ACCESSORY SUBSTANCES OF PESTICIDE PRODUCTS. (IT)
M Tirelli
Giornate Fitopatol 79-80
26 Mar 1967 SB599.G5
Aerosols, Botrytis cinerea, Chlorine, Copper, Fungicides, Oxides, Pesticides, Toxicity, Wine.

3044-69
INFLUENCE OF REFRIGERATION ON AFLATOXIN PRODUCTION. (ABSTRACT).
M Van Walbeek T Clademenos F S Thatcher
Can J Public Health 60(1):34
Jan 1969 449.8 P964
Aflatoxin, Aspergillus flavus, Refrigeration, Temperature, Toxins.

PLANT PHYSIOLOGY & BIOCHEMISTRY

3045-69
HISTONES--ANIMAL AND VEGETABLE.
Nature 220(5168):650
16 Nov 1968 472 N21
Animals, Biochemistry, Deoxyribonucleic acid, Enzymes, Genes, Histones, Vegetables.

3046-69
THE INFLUENCE OF PLANTS ON THE INACTIVATION OF SOIL HERBICIDES FOR EXAMPLE OF SIMAZINE AND ATRAZINE. (GE)
J Alkamper
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):195-202
Feb 1967 410.9 G31M
Atrazine, Corn, Cover crops, Decomposition, Herbicides, Phytotoxicity, Plant metabolism, Simazine. English abstract

3047-69
A NEW HERBICIDE FOR USE ON CULTIVATED PLANTS. (IT)
G Bernardini
Giornate Fitopatol 493-497
26 Mar 1967 SB599.G5
Beans, Cabbage, Carrots, Cauliflower, Chemical control (weeds), Chlorinated hydrocarbons, Redpeppers (vegetable), Tomatoes, Trifluralin.

3048-69
GIBBERELLIC ACID AND ITS USE IN FRUIT CULTURES. (IT)
B Dal Bianco
Giornate Fitopatol 631-634 REF
26 Mar 1967 SB599.G5
Apples, Fruit culture, Gibberellic acid, Peaches, Plant regulators.

3049-69
CHLOROPLAST RIBOSOMES: STEREOSPECIFICITY OF INHIBITION BY CHLORAMPHENICOL.
R J Ellis
Science 163(3866):477-478 REF
31 Jan 1969 470 SCI2
Bacteria, Biochemistry, Chloramphenicol, Chloroplasts, Plant physiology, Ribosomes, Tobacco.

3050-69
TESTS OF (2-CHLOROETHYL)TRIMETHYLAMMONIUM CHLORIDE ON VARIETIES OF HARD WHEAT.
P Grignac A Salis
Phytoma 20(199):15-20
Jun 1968 464.8 P563
Chloroethyl)trimethylammonium chloride, (2-, Crop varieties, Dosage, Nitrogen, Plant physiology, Plant regulators, Research, Wheat.

3051-69
ETHYLENE: A FACTOR IN DEFOLIATION INDUCED BY AUXINS.
M Hallaway D J Osborne
Science 163(3871):1067-1068 REF
07 Mar 1969 470 SCI2
Aerial spraying, D, 2,4-, Defoliation, Ethylene, Plant physiology, Plant regulators, T, 2,4,5-.

3052-69
FACTORS INFLUENCING EXPRESSION OF OXIDANT DAMAGE TO PLANTS.
W W Heck

Annu Rev Phytopathol 6:165-188 REF
1968 464.8 AN72
Air pollution, Photochemistry, Phytotoxicity, Plant biochemistry, Plant injuries, Plant physiology.

3053-69
STORAGE EFFECTS ON FORCING RESPONSE AND GIBBERELLIN LEVELS IN EASTER LILIES.
L L Hill
Diss Abstr Sect B 29(3):832B
Sep 1968 Z5055.U49D53
Biological assay, Gibberellins, Lilium longiflorum, Plant metabolism, Plant physiology, Storage, Temperature.

3054-69
MOTHER-DAUGHTER FROND INTERACTION IN THE COURSE OF GROWTH OF DUCKWEED (LEMNA MINOR L.) COLONY. (RUS)
V B Kasinov
Bot Zhur (moscow) 53(11):1558-1568
Nov 1968 451 R923
Lemna minor, Plant ecology, Plant physiology. English abstract

3055-69
THE STEROL ESTERS OF MAIZE SEEDLINGS.
R J Kemp E I Mercer
Biochem J 110(1):111-118 REF
Nov 1968 382 B52
Biochemistry, Chromatography, Corn, Esters, Extracts, Lipids, Plant physiology, Residues, Scutellum, Seed germination, Seedlings, Sterols, Tables (data), Tissue culture.

3056-69
STUDIES ON THE STEROLS AND STEROL ESTERS OF THE INTRACELLULAR ORGANELLES OF MAIZE SHOOTS.
R J Kemp E I Mercer
Biochem J 110(1):119-125
Nov 1968 382 B52
Biochemistry, Cell nucleus, Cells, Chloroplasts, Cholesterol, Corn, Esters, Microsomes, Mitochondria, Sterols, Tables (data), Tissues.

3057-69
LOSS OF GIBBERELLINS BY LEACHING FROM STEMS AND FOLIAGE OF CHRYSANTHEMUM MORIFOLIUM 'PRINCESS ANNE'.
P C Kozel H B Tukey
Amer J Bot 55(10,NOV-DEC):1184-1189 REF
1968 450 AM36
Biological assay, Chromatography, Chrysanthemum morifolium, Extraction, Fractionation, Gibberellins, Metabolites, Photoperiodism, Plant nutrition, Plant physiology, Rainfall, Silica gels, Soil leaching.

3058-69
PHYSIOLOGICALLY ACTIVE SUBSTANCE IN CAPSELLA BURSAPASTORIS.
K Kuroda K Takagi
Nature 220(5168):707-708
16 Nov 1968 472 N21
Alcohols, Biochemistry, Capsella bursa-pastoris, Drug plants, Peptides, Pharmacology, Plant extracts, Plant physiology.

3059-69
PHENETHYL ALCOHOL AND TRYPTOPHOL: AUTOANTIBIOTICS PRODUCED BY THE FUNGUS CANDIDA ALBICANS.
B T Lingappa M Prasad Y Lingappa D F Hunt K Biemann
Science 163(3863):192-194
10 Jan 1969 470 SCI2
Alcohols, Antibiotics, Candida albicans, Chemicals, Fungus cultures, Plant growth inhibitors, Spectrometry.

3060-69
LOCALIZATION OF DEHYDROGENASES IN THE NODULAR TISSUES OF LEGUMINOUS CROPS.
Y V Peive B A Yagodin G A Ovcharenko G F Khailova
Acad Sci U Ssr Dokl Bot Sci 179(MAR-APR):58-60 REF
1968 511 P444AE
Beans, Dehydrogenases, Field crops, Legumes, Nitrogen-fixing bacteria, Plant biochemistry, Rhizobium, Symbiosis, Tissues. Translated from Russian.

3061-69
THE EFFECT OF ANTI-FUNGAL ANTIBIOTICS ON THE NODULATION OF TRIFOLIUM SUBTERRANEUM AND THE ESTIMATION OF RHIZOBIUM TRIFOLII POPULATIONS.
A C Robinson
Australian J Exp Agr Anim Husb 8(32):327-331 REF
Jun 1968 23 AU792
Antibiotics, Cycloheximide, Fungicides, Griseofulvin, Mycostatin, Nodules (plants), Plant physiology, Rhizobium trifolii, Subterranean clover.

3062-69
TRANSLOCATION PATTERNS OF SELECTED HERBICIDES AND INFLUENCE OF FENAC ON SOME PHYSIOLOGICAL AND HISTOLOGICAL CHANGES IN MUGWORT.
A B Rogerson
Diss Abstr Sect B 29(3):833B
Sep 1968 Z5055.U49D53
Artemisia vulgaris, Biochemistry, Fenac, Greenhouse culture, Herbicides, Plant histology, Plant physiology, Plant translocation, Radioactive tracers.

3063-69
METAMORPHOSIS IN ONTOGENESIS OF PARASITIC ANGIOSPERMOUS PLANTS.
E S Terekhin
Acad Sci U Ssr Dokl Bot Sci 178(JAN-FEB):20-22
1968 511 P444AE
Angiospermae, Metamorphosis, Parasitism, Plant physiology, Plants. Translated from Russian.

3064-69
SEASONAL CHANGES IN GIBBERELLIN-LIKE COMPOUNDS IN OVARIES AND YOUNG FRUITS OF NAVEL ORANGE.
W J Wiltbank
Diss Abstr Sect B 29(3):820B
Sep 1968 Z5055.U49D53
Abscission, Biochemistry, Climate, Gibberellins, Indoleacetic acid, Oranges, Ovaries, Plant metabolism, Plant physiology, Radioactive tracers, Weather.

3065-69
THE EFFECTS OF TREATMENTS AGAINST OSTRINIA (PYRAUSTA) NUBILALIS HB. ON THE PRODUCTION OF HYBRID CORN. (IT)
S Zangheri L Masutti
Giornate Fitopatol 345-352
26 Mar 1967 SB599.G5
Chemical control (insects), Chlorinated hydrocarbons, Corn, Crop varieties, Crop yields, DDT, Ostrinia nubilalis.

CHEMISTRY

3066-69
A NOVEL METHOXYLATION DURING OXIDATION OF SIMPLE DIHYDROPYRIMIDO (5,4-E)-AS- TRIAZINES.
M E C Biffin D J Brown
Tetrahedron Lett (21):2503-2506
Apr 1968 385 T29
Antibiotics, Chemical reactions, Defoliants, Triazines.

3067-69
THE UTILIZATION OF THE IN VITRO CHOLINESTERASIS REACTION FOR THE IDENTIFICATION AND SEPARATION OF INSECTICIDE RESIDUES. (IT)
A Cesari E Olmo B Guiati
Giornate Fitopatol 129-132
26 Mar 1967 SB599.G5
Azinphosmethyl, Chemical analysis, Chemical reactions, Cholinesterases, Chromatography, In vitro, Insecticide residues, Mevinphos, Parathion.

3068-69
ABSORBTION AND DEGRADATION OF ZINEB. (IT)
A A Del Re P Fontana
Giornate Fitopatol 287-290
26 Mar 1967 SB599.G5
Absorption, Degradation, DMSO, Solvents, Thiocarbamates, Zineb.

3069-69
GIBBERELLIN A24, AN ALDEHYDIC GIBBERELLIN FROM GIBBERELLA FUJIKUROI.
D M Harrison J MacMillan R H B Galt
Tetrahedron Lett (27):3137-3139
May 1968 385 T29
Aldehydes, Chromatography, Gibberella fujikuroi, Gibberellins, Lupinus luteus.

3070-69
THE PISCICIDAL CONSTITUENTS OF CALOPHYLLUM INOPHYLLUM LINN.
K Kawazu H Ohigashi T Mitsui
Tetrahedron Lett (19):2383-2385
Mar 1968 385 T29
Biological assay, Calophyllum inophyllum, Chromatography, Fish poisons, Leaves, Plant extracts.

3071-69
STRUCTURE OF LEMMASTERONE, A NOVEL C29 INSECT-MOULTING SUBSTANCE FROM LEMMAPHYLLUM MICROPHYLLUM.
T Takemoto Y Hikino T Arai H Hikino
Tetrahedron Lett (37):4061-4064
Jul 1968 385 T29
Hormones, Lemmaphyllum microphyllum, Lemmasterone, Mass spectra, Molting (insects), Protein synthesis, Sarcophaga, Steroids.

3072-69
THE EFFECT OF THE ASSOCIATION OF ORGANIC MATERIAL WITH CLAYS ON PARATHION AND DDT ADSORPTION.
W G Wang
Diss Abstr Sect B 29(3):904B-905B
Sep 1968 Z5055.U49D53
Adsorption, Clay soils, DDT, Parathion, Surface chemistry, Water.

ENGINEERING

3073-69
COMPARATIVE TESTS AMONG VARIOUS MACHINES USED FOR PEST CONTROL IN FRUIT ORCHARDS. (IT)
A Cesari F Donati S Foschi A Ugolini
Giornate Fitopatol 569-592 REF
26 Mar 1967 SB599.G5
Costs, Dusting equipment, Equipment, Fumigation, Fungi, Insect pests, Mist blowers, Nematodes.

3074-69
AERIAL ACTIVITY IN ITALIAN AGRICULTURE IN THE PERIOD FROM 1963 TO 1966. (IT)
G Costantino
Giornate Fitopatol 593-609 REF
26 Mar 1967 SB599.G5
Aerial spraying, Aircraft, Chemical control (pests), Helicopters.

3075-69
MECHANICAL MEANS FOR WEED CONTROL IN RICE FIELDS. (IT)
A Finassi
Giornate Fitopatol 465-474
26 Mar 1967 SB599.G5
Aerial spraying, Carbamates, Chemical control (weeds), Propanil, Rice, Spraying equipment, Urea compounds.

3076-69
THE SOUTH COOK COUNTY MOSQUITO ABATEMENT DISTRICT RIGHT HAND DRIVE IN SERVICE.
B E Johns
Mosquito News 28(2):237-238
Jun 1968 421 M85
Chemical control (insects), Culicidae, Methodology, Spraying equipment.

3077-69
AN AUTOMATIC SPRAYING APPARATUS FOR LABORATORY EXPERIMENTS. (GE
F Kersting
Berlin Biol Bundesanst Land-forstwirtsch Mitt (121):285-288
Feb 1967 410.9 G31M
Herbicide application, Laboratory equipment, Spraying equipment. English abstract

INDUSTRY

3078-69
THE CAMPAIGN OF THE NATIONAL SOCIETY FOR THE PREVENTION OF ACCIDENTS AGAINST THE USE OF PESTICIDES, WITH PARTICULAR REFERENCE TO THE EMILIA-ROMAGNA REGION. (IT)
A Rimondi
Giornate Fitopatol 141-149 MAP
26 Mar 1967 SB599.G5
Accident prevention, Chemical control (pests), Education, Pesticides, Public health, Societies, Toxicity.

ECONOMICS

3079-69
MODERN HONEY PROCESSING.
V A Cook
New Zeal J Agr 118(2):51,53,55
Feb 1969 23 N48J
Equipment, Food processing, Honey.

ABORTION
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AEDES CINEREUS
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AEDES VEXANS
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